CITERLAB İSTATISTIK

CiterLab 8.1.3 İstatistiksel Doğrulama Kayıtları

APA 7 uyumlu tablo ve raporlama çıktısı

Kaynak: 24 Kasım 2026 · 158 senaryo | Oluşturma: 2026-11-24

159 Tablo	492 Rapor bölümü	APA 7 Biçim

CiterLab 8.1.3 · 24 Kasım 2026 · Hesaplama ve iş akışı kabul kaydı

CiterLab İstatistiksel Doğrulama Kayıtları

Aynı kaydedilmiş veri, açık analiz ayarları ve ayrı yazılımlarda elde edilmiş sonuçların karşılaştırılması.

1. Kapsam ve sonuç özeti

Güncel katalogdaki **106 yöntem/iş akışı girdisi** için **158 sayısal senaryo** eşlenmiştir. Katalog; 42 temel analiz, 53 ileri analiz, 5 araştırma şablonu, 4 AFA/DFA/SEM/Path yolu ile güç ve dağılım araçlarını kapsar. Katalog girdisi, senaryo ve sayısal hücre aynı sayım birimi değildir.

Karşılaştırma dosyalarında **2.601 satır** vardır: 2598 sonlu sayısal karşılaştırma, 1 yuvarlanmış olasılık için aralık kontrolü ve 2 sonsuz serbestlik derecesi limitinin tam eşleşmesi. Satırların tamamı kendi kayıtlı karşılaştırma kuralını sağlamıştır. Sonlu değerlerde mutlak fark ≤ mutlak tolerans + göreli tolerans × |referans| uygulanır.

11 senaryo üç yazılımla doğrulanmıştır: 8 genel/genelleştirilmiş doğrusal model ve 3 Cox senaryosu. Bu senaryolarda CiterLab, R ve SPSS aynı kaydedilmiş tasarım matrisi, yanıt ve varsa offset/olay bilgisini kullanır. Diğer senaryolarda tabloda boş bırakılan yazılımda hesaplama yapılmamıştır.

Bu kayıt, **8.1.3 kaynak adayının** hesaplama ve iş akışı kabulüne aittir. Son imzalı kurulumun işletim sistemi ve dağıtım testleri ayrı yayın kabul kaydında tutulur.

2. Karşılaştırma protokolü

> Sentetik veri bir kez CSV olarak kaydedildi. CiterLab ve referans yazılım bu dosyayı okudu. Dosyaların SHA-256 özetleri pakette bulunur.
>
> Sonuç değişkeni, yordayıcılar, grup/olay kodları, analiz örneklemi, eksik veri kuralı, tahmin yöntemi, kareler toplamı, düzeltmeler ve güven düzeyleri eşlendi.
>
> CiterLab'ın gerçek hesap veya rapor üretim yolundan elde edilen değerler, ayrı çalıştırılan R/SPSS çıktılarıyla karşılaştırıldı. Görüntüde yuvarlanan hücreler tam hassasiyetli değerlerden ayrıldı.
>
> Rastgele yeniden örnekleme gereken sınamalarda tohum ve gerektiğinde ortak yeniden örnekleme indisleri saklandı. Toleranslar karşılaştırma satırında korunur; bir farkı geçerli göstermek için sonradan yükseltilmedi.
>
> Başarısız denemeler özel işlem günlüğünde korundu. Düzeltme sonrası kabul, yeni çalıştırma kayıtlarına bağlandı. Önceki sürüm raporu yeni sürümün testi olarak kullanılmadı.

3. Denetlenen temel aileler

t ve sıra testleri, ANOVA/ANCOVA ve tekrarlı ölçümler; çok değişkenli modeller; korelasyon ve regresyon; GLM/GEE/karma modeller; eksik veri ve etki tanıları; güvenirlik, puanlayıcı uyumu ve kapsam geçerliği; ölçek ve başarı testi geliştirme; meta analiz; zaman serisi ve panel modelleri; sağkalım; güç ve olasılık hesapları değerlendirilmiştir. Aşağıdaki yöntem dizini ilgili gerçek senaryoya gider.

4. Özellikle kontrol edilen ayarlar

AFA: seçilen maddeler, ters puanlama, çıkarım/rotasyon, KMO/Bartlett, ortak varyanslar ve faktör yapısı; model önerisi ile onaylanmış DFA ayrımı.

DFA/SEM: normal ML, marker tanımlaması, parametre/serbestlik sayımı; χ^2, df, p, CFI, TLI, RMSEA, GFI, AGFI, NFI, SRMR, log olabilirlik, AIC/BIC ve RMSEA güven aralığı. Sonlu örneklem ve referans model tanımları eşlenmiştir. Doymuş veya uygun olmayan model için desteklenmeyen bir uyum kararı üretilmez.

GLM: Gaussian, lognormal, binomial logit/probit/cloglog, Poisson, dayanıklı kovaryans ve Gamma. Grup kodlama farkını önlemek için üç yazılıma aynı açık matris verilmiştir.

Cox: tekil olay zamanı, bağlı olay zamanları ve eksik değerli senaryolar; Breslow bağı işleme, B/HR/SH/p değerleri birlikte kontrol edilmiştir.

Madde ve uyum: ikili ve çok kategorili madde girdileri, güçlük/ayırt edicilik, düzeltilmiş madde ilişkileri, alfa/omega/ICC/kappa, CVI/CVR ve rubrik çıktıları. Hangi katsayının hangi karşılaştırmada bulunduğu hücre ve ayar dosyalarında gösterilir.

5. İş akışı, kayıt ve çıktı kabulü

38 seçilmiş hesap/iş akışı test grubu tamamlandı. Bu gruplarda rapor üretimi, Word/PDF/Excel dışa aktarımı, kaynak verinin korunması, ayarların kaydedilip geri yüklenmesi, iptal, eski sonucun reddi ve veri rolü kontrolleri sınandı. Başlangıçta eksik referans paketi, eksik eski yerleşim kaydı ve çalıştırma argümanı nedeniyle duran üç testin sonuçları korunmuş, ilgili düzeltmelerle gerekli aşamalar tekrar kabul edilmiştir.

Gerçek Windows teması ve %125 ölçek altında AFA/DFA/SEM model–rapor geçişi; dört dilde durumun korunması; ölçekte analiz/onay/iptal ve rapor çıktısı; Citerstat model, kayıt ve rapor akışları ayrıca denetlendi. Bu arayüz kabulleri sayısal referans karşılaştırması sayısına eklenmemiştir.

6. Kapsamın doğru yorumlanması

Bir katalog girdisindeki kayıtlı senaryo, olası bütün veri dağılımlarının veya bütün seçenek birleşimlerinin sınandığı anlamına gelmez. Çoklu imputasyon için R karşılaştırması aynı uygulama üretimi beş tamamlanmış veri üzerinden Rubin birleştirmesini doğrular; imputasyon üretecinin bağımsız tekrarını iddia etmez. AFA işaret/faktör sırası farklılığı eşdeğer çözümlerle karıştırılmaz. SPSS 18'de ayrıca çalıştırılmamış DFA/SEM sonucu varmış gibi gösterilmez.

Ek olarak 30 SPSS ANOVA senaryosu alt hesaplayıcı/referans düzeyinde geçti. Bunların tamamı üç motorlu kullanıcı arayüzü karşılaştırması olarak sayılmamıştır. Tek bir testin seçilmiş hücreleriyle tüm raporun evrensel doğruluğu arasında ayrım korunur.

7. Verileri kullanarak yeniden inceleme

> İlgili senaryonun veri CSV'sini ve settings.json dosyasını açın. Başlıksız matrislerde csv_header=false ve columns sırası esas alınır; ilk veri satırı başlık olarak tüketilmemelidir.
>
> CiterLab'da veri dosyasını açın, belirtilen yöntem ve rolleri seçin; eksik değer, güven düzeyi ve düzeltmeleri eşleyin.
>
> R veya SPSS'te aynı modeli ve aynı örneklemi kurun. Model tanımı ve kestirim yöntemi örtüşmeden yalnız test adına bakarak değer karşılaştırmayın.
>
> results.json içinde tam hassasiyetli değerleri ve toleransları inceleyin. Görüntüdeki < .001 ifadesi sıfıra eşitlik olarak değerlendirilmez. Paket bütünlüğünü manifest.json ile doğrulayın.

Veri setleri bu çalışma için üretilmiş sentetik verilerdir; katılımcı veya müşteri kaydı içermez. Veri dosyaları CC0 1.0 ile paylaşılır. Uygulama kaynakları, arka plan eşleştirme kayıtları ve doğrulama betikleri özel arşivde tutulur.

8. Yazılım ve paket sürümleri

Yazılım/paket	Sürüm
CiterLab	8.1.3 · current source candidate
R	4.4.2
SPSS / PASW Statistics	18.0.0
numpy	2.4.4
scipy	1.17.1
pandas	2.3.3
statsmodels	0.14.6
semopy	2.3.11
scikit-learn	1.9.0
PySide6	6.11.3
CiterLab factor_analysis_backend	1.0.0
R / car	3.1-5
R / geepack	1.3.13
R / lavaan	0.6-21
R / lmtest	0.9-40
R / nortest	1.0-4
R / numDeriv	2016.8-1.1
R / psych	2.6.3
R / MASS	7.3-61
R / nlme	3.1-166
R / biotools	4.3

9. Yöntem dizini

Tek Orneklem t · 1 senaryo
Bagimsiz t-Testi · 1 senaryo
Welch t-Testi · 1 senaryo
Bagimli t-Testi · 1 senaryo
Wilcoxon Eslesik · 1 senaryo
Isaret Testi · 1 senaryo
Tek Yonlu ANOVA · 1 senaryo
Iki Yonlu ANOVA · 1 senaryo
Welch ANOVA · 1 senaryo
Kruskal-Wallis · 1 senaryo
Mann-Whitney U · 1 senaryo
Normallik Testleri · 1 senaryo
Varyans Homojenligi · 1 senaryo
Pearson Korelasyon · 1 senaryo
Spearman Korelasyon · 1 senaryo
Kendall Tau · 1 senaryo
Ki-kare Bagimsizlik · 1 senaryo
Ki-kare Uyum Iyiligi · 1 senaryo
Fisher Kesin Testi · 1 senaryo
McNemar · 1 senaryo
Cochran Q · 1 senaryo
rANOVA · 1 senaryo
Karma analiz (klasik F / Wald χ^2) · 1 senaryo
Friedman · 1 senaryo
ANCOVA · 1 senaryo
MANOVA · 1 senaryo
MANCOVA · 1 senaryo
OLS Regresyon · 1 senaryo
Hiyerarsik Regresyon · 1 senaryo
Ordinal Lojistik Regresyon · 1 senaryo
Multinomial Lojistik Regresyon · 1 senaryo
Poisson Regresyon · 1 senaryo
Lojistik Regresyon · 1 senaryo
Bootstrap Guven Araligi · 1 senaryo
Permutasyon Testi · 1 senaryo
Nonparametrik Regresyon · 1 senaryo
Duyarlilik/Ozgulluk · 1 senaryo
Bayes Tarama Yorumu · 1 senaryo

Relative Risk / Odds Ratio · 1 senaryo

Mantel-Haenszel · 1 senaryo

Kaplan-Meier / Log-rank · 1 senaryo

Cox Regresyon · 4 senaryo

Kesin binom testi · 3 senaryo

Bland–Altman ölçüm uyumu · 1 senaryo

Genel / genelleştirilmiş doğrusal model · 9 senaryo

Little MCAR testi · 1 senaryo

EM ile normal-model imputasyonu · 1 senaryo

Çoklu imputasyon — Bayesçi zincirli regresyon · 1 senaryo

Mahalanobis uzaklığı · 1 senaryo

OLS etkili gözlem tanıları · 1 senaryo

McDonald omega — tek faktör · 1 senaryo

İki yarı / Spearman–Brown · 1 senaryo

Test–retest korelasyonu · 1 senaryo

ICC — tek ölçüm, iki yönlü · 1 senaryo

Cohen kappa · 1 senaryo

Fleiss kappa · 1 senaryo

İçerik geçerliği — CVI · 1 senaryo

İçerik geçerliği — CVR · 1 senaryo

Mauchly / GG ve HF epsilon · 1 senaryo

Box’s M · 1 senaryo

Regresyon varsayımları / VIF / artık grafikleri · 1 senaryo

ANCOVA eğim homojenliği · 1 senaryo

Faktöriyel ANOVA (2–4 faktör) · 1 senaryo

RM / Mixed ANCOVA — çok değişkenli yaklaşım · 1 senaryo

İki yönlü MANOVA · 1 senaryo

Tekrarlı ölçüm MANOVA · 1 senaryo

Kısmi Pearson korelasyonu · 1 senaryo

Point-biserial korelasyon · 1 senaryo

Moderasyon — X × W · 1 senaryo

Koşullu aracılık — ilk yol moderasyonu · 1 senaryo

Aracılı moderasyon — etkileşim dolaylı etkisi · 1 senaryo

GEE — Gaussian · 1 senaryo

GEE — Binomial · 1 senaryo

GEE — Poisson · 1 senaryo

Negatif binom regresyonu — NB2 · 1 senaryo

GLMM — Binomial, Bayesçi rastgele kesişim · 1 senaryo

GLMM — Poisson, Bayesçi rastgele kesişim · 1 senaryo

OLS duyarlılık / sağlamlık karşılaştırması · 1 senaryo
Ortalama için güven aralığı · 1 senaryo
Yüzdeliklere dayalı referans aralığı · 1 senaryo
Brown–Forsythe — ortalama farkı · 1 senaryo
Brown–Forsythe — varyans homojenliği · 1 senaryo
Meta analiz — ortak etki · 1 senaryo
Meta analiz — rastgele etkiler (Paule–Mandel) · 2 senaryo
ROC / AUC — DeLong belirsizliği · 2 senaryo
Karma model — Gaussian rastgele kesişim · 1 senaryo
Tesadüf blokları — eklemeli model · 1 senaryo
Çoklu sınama — p düzeltmesi · 3 senaryo
Zaman serisi tanıları — ADF / KPSS / ACF · 1 senaryo
ARIMA — zaman serisi tahmini · 2 senaryo
SARIMA — mevsimsel zaman serisi · 1 senaryo
Panel — havuzlanmış OLS · 1 senaryo
Panel — sabit etkiler · 2 senaryo
Panel — rassal etkiler · 1 senaryo
Panel — klasik Hausman testi · 1 senaryo
Yarı deneysel · 1 senaryo
İlişkisel şablon · 1 senaryo
Korelasyonel analiz · 1 senaryo
Ölçek geliştirme · 4 senaryo
Test geliştirme ve madde analizi · 4 senaryo
SEM stüdyosu AFA · 1 senaryo
SEM stüdyosu DFA · 2 senaryo
Yapısal eşitlik · 2 senaryo
Yol analizi · 1 senaryo
Güç analizi: sekiz aile, üç hedef · 26 senaryo
Olasılık dağılımları · 1 senaryo

1. Tek Orneklem t

Senaryo: one_sample_t · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=t]	-3.3367605892128802	-3.3367605892128802	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.0010307813839216464	0.0010307813839216457	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "one_sample_t",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
          "resampling_draws": 999,
          "resampling_seed": 20260617,
                    "var1": "y",
              "null_value": 0.25
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-one_sample_t/settings.json SHA-256: ac429c2c399514939c48e561077044233397ce2cd52939d08a0dd13e2cd22218

cases/basic-one_sample_t/results.json SHA-256: b8f7fa095c37bb1f1dedbe23155321946f6465dfab8c2cde88eb3ad4fb4f3255

2. Bagimsiz t-Testi

Senaryo: independent_t · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=t]	1.5172132024572127	1.5172132024572127	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.1318874125919117	0.1318874125919183	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "independent_t",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
          "resampling_draws": 999,
          "resampling_seed": 20260617,
```

```
                "var1": "y",
               "group": "g",
             "group_a": "A",
             "group_b": "B"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-independent_t/settings.json SHA-256: fdfc48d88c568607dd707039de46b02c83957af4d1892948b11bb3993deb0e27
>
> cases/basic-independent_t/results.json SHA-256: c3bf1ce16130d8133649d2b4f31318ddcc6d93f26e7e79fa18e52e43760d9dea

3. Welch t-Testi

Senaryo: welch_t · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=t]	1.5172132024572127	1.5172132024572129	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.13188788391716155	0.13188788391716136	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
                "test": "welch_t",
               "alpha": 0.05,
  "assumption_auto_select": false,
        "include_plot": false,
    "resampling_draws": 999,
    "resampling_seed": 20260617,
                "var1": "y",
               "group": "g",
             "group_a": "A",
             "group_b": "B"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-welch_t/settings.json SHA-256: cf1151e318e14485ccc8af1be222f13971bef11f6fd744ff517326488b4be4c6

> cases/basic-welch_t/results.json SHA-256: 6b5951b0deeb1238670450f326e28ea1937bd6dea3329646f7c65f6d6256856a

4. Bagimli t-Testi

Senaryo: paired_t · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=t]	-4.4456519626172435	-4.4456519626172435	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	1.5337606531454621e-05	1.5337606531454553e-05	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
    "test": "paired_t",
    "alpha": 0.05,
    "assumption_auto_select": false,
    "include_plot": false,
    "resampling_draws": 999,
    "resampling_seed": 20260617,
    "var1": "r1",
    "var2": "r2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-paired_t/settings.json SHA-256: 571109e491456a7402a7004ea507e3902fc300ed1ca462e6658cb88d86c53917
>
> cases/basic-paired_t/results.json SHA-256: e4d65a251bdf5c06482b11d9a8672e364a05ad07098a7c49495c293f3521fd64

5. Wilcoxon Eslesik

Senaryo: wilcoxon_paired · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=W]	5237	5237	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	3.2767489438930939e-05	3.2767489438930966e-05	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "wilcoxon_paired",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "r1",
  "var2": "r2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-wilcoxon_paired/settings.json SHA-256: fa69ade2ead7ff57f7f8050c59ff278536a3c30174e25448cbdd6bb0ba9c1b27
>
> cases/basic-wilcoxon_paired/results.json SHA-256: b53ebe8b7076fdc1a01ca107e1ec7048186bb8d7e723582521e9dae7cbcac55b

6. Isaret Testi

Senaryo: sign_test · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
p [row=1, col=p]	0.00023907686271627408	0.00023907686271627357	—	9.9999999999999995e-08	9.9999999999999995e-07
positive_count [row=1, col=Artis]	115	115	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "sign_test",
                   "alpha": 0.05,
    "assumption_auto_select": false,
                "include_plot": false,
          "resampling_draws": 999,
          "resampling_seed": 20260617,
                    "var1": "r1",
                    "var2": "r2"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-sign_test/settings.json SHA-256: d2a8aab702074ff76ff494ce30d1569d1c30f7de4a15d8aa8105719cf0c594da

cases/basic-sign_test/results.json SHA-256: 141ea2c073949b60b6a53da4e2a49adb3b3f935a16570ae592ce2b2a60cfc45b

7. Tek Yonlu ANOVA

Senaryo: anova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=F]	1.2097677371463271	1.2097677371463242	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.30072058048497685	0.30072058048497757	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "anova",
                   "alpha": 0.05,
    "assumption_auto_select": false,
                "include_plot": false,
          "resampling_draws": 999,
          "resampling_seed": 20260617,
                    "var1": "y",
```

```
  "group":    "g",
  "group_a":  "A",
  "group_b":  "B"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-anova/settings.json SHA-256: 149252888298854b393b458297500bf783f490b323fadc61db38447eb69c89ea

cases/basic-anova/results.json SHA-256: 61b72b761dd385ccfc3d021447209e5591ff01cb87008564ea0bdae4489a9900

8. Iki Yonlu ANOVA

Senaryo: two_way_anova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
effect1_F [row=1, col=F]	1.2363765164946932	1.2363765164946932	—	9.999999999999995e-08	9.999999999999995e-07
effect1_p [row=1, col=p]	0.29297334121043889	0.29297334121043883	—	9.999999999999995e-08	9.999999999999995e-07
effect2_F [row=2, col=F]	2.0720808944213704	2.072080894421354	—	9.999999999999995e-08	9.999999999999995e-07
effect2_p [row=2, col=p]	0.15181331614472185	0.15181331614472346	—	9.999999999999995e-08	9.999999999999995e-07
effect3_F [row=3, col=F]	2.4105125150013569	2.4105125150013431	—	9.999999999999995e-08	9.999999999999995e-07
effect3_p [row=3, col=p]	0.092761580786520983	0.092761580786522163	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
  "test":                 "two_way_anova",
  "alpha":                0.05,
  "assumption_auto_select": false,
  "include_plot":         false,
  "resampling_draws":     999,
  "resampling_seed":      20260617,
  "var1":                 "y",
  "group":                "g",
```

"factor2": "h"
}

Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-two_way_anova/settings.json SHA-256: dab0878e66bbfbb8ffb0062b2942df46d6a66ee089ccb8c5fe4c659d2b55d1ea
>
> cases/basic-two_way_anova/results.json SHA-256: bcdb1a0751bb97df740290aff2f5dfecc755a7b091275a3a216bc5e0860f8691

9. Welch ANOVA

Senaryo: welch_anova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=Fw]	1.1776763506242376	1.1776763506242383	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.31158777983485259	0.31158777983485236	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları

{
"test": "welch_anova",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"var1": "y",
"group": "g",
"group_a": "A",
"group_b": "B"
}

Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-welch_anova/settings.json SHA-256: 07e65ff1a6768973760e2f04c8ccf4cf11e50dc8f3901f68549100cd07d62c31
>
> cases/basic-welch_anova/results.json SHA-256: 7dd675db23d1dbd48b50ad3e11041839137414f224f3556be1b03761e225395f

10. Kruskal-Wallis

Senaryo: kruskal · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=H]	2.7763904235727068	2.7763904235727068	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.24952523870150156	0.24952523870150156	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "kruskal",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
         "resampling_draws": 999,
         "resampling_seed": 20260617,
                    "var1": "y",
                   "group": "g",
                 "group_a": "A",
                 "group_b": "B"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-kruskal/settings.json SHA-256: 223d7a07f4b23ac2a459aac9a705bc61cb489ee55cc7d9ea617927b8f9bbffbf
>
> cases/basic-kruskal/results.json SHA-256: ed13048da32590b4ead991317e540f84ca95f86c221e4cd3ed9dad4c1b310bc2

11. Mann-Whitney U

Senaryo: mann_whitney · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=U]	2098	2098	—	9.999999999999999 5e-08	9.999999999999999 5e-07
p [row=1, col=p]	0.1184128859746 1135	0.118412885974 6114	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "mann_whitney",
                   "alpha": 0.05,
  "assumption_auto_select": false,
           "include_plot": false,
        "resampling_draws": 999,
        "resampling_seed": 20260617,
                    "var1": "y",
                   "group": "g",
                 "group_a": "A",
                 "group_b": "B"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-mann_whitney/settings.json SHA-256: 0644ff19ec829a977837d08668a2a30c72ba19f5c0158e06251c46177e611d79
>
> cases/basic-mann_whitney/results.json SHA-256: 767c7f1e7bdd74932d0ac4e1ccd00ed4414be751984e2163b75c41854bd8a77f

12. Normallik Testleri

Senaryo: normality_tests · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Shapiro_W [row=1, col=Istatistik]	0.9945593768898 6562	0.9945593768893 4493	—	9.999999999999999 5e-08	9.999999999999999 5e-07
Shapiro_p [row=1, col=p]	0.7539267569599 3872	0.7539267568874 3727	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
"test": "normality_tests",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"multi_vars": [
"x"
]
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-normality_tests/settings.json SHA-256: 7bb8576ba460819804cdc3490e27b1904045235ab5a45a9f94594c4fa9601ead

cases/basic-normality_tests/results.json SHA-256: 83793b2d380048d1b6d6f2c3bb1bf3ff787c646216bdb313340a700b61b2f142

13. Varyans Homojenligi

Senaryo: homogeneity_tests · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=Istatistik]	0.30493070798795224	0.30493070798795435	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.73756092399575301	0.73756092399575146	—	9.9999999999999995e-08	9.9999999999999995e-07
Bartlett_stat [row=1, col=Istatistik]	0.08166250879335 1657	0.08166250879337987	—	9.9999999999999995e-08	9.9999999999999995e-07
Bartlett_p [row=1, col=p]	0.95999111055979 38	0.95999111055978026	—	9.9999999999999995e-08	9.9999999999999995e-07
Fligner-Killeen_stat [row=1, col=Istatistik]	0.84088384034664221	0.84088440887877902	—	9.9999999999999995e-08	9.9999999999999995e-07
Fligner-Killeen_p [row=1, col=p]	0.65675652171958077	0.65675633502601305	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "homogeneity_tests",
                   "alpha": 0.05,
  "assumption_auto_select": false,
           "include_plot": false,
         "resampling_draws": 999,
         "resampling_seed": 20260617,
                    "var1": "y",
                   "group": "g",
                 "group_a": "A",
                 "group_b": "B"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-homogeneity_tests/settings.json SHA-256: 56bbb6d90fb8771270d83dcf97c848bb4460186228a6ca777be82c56cce9c03a
>
> cases/basic-homogeneity_tests/results.json SHA-256: 50c2da854e5c03e0cd4c5afdad87c0b6e01c51f90170ab3eb3638c9f35884542

14. Pearson Korelasyon

Senaryo: pearson_corr · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient [row=1, col=Katsayi]	0.63075472921121301	0.63075472921121323	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	2.3243423756653781e-21	2.3243423756652487e-21	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "pearson_corr",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "r1",
  "var2": "r2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-pearson_corr/settings.json SHA-256: 1a436f7fc71ceb07c4c0bb2ef3974611ec66d1b28e229519cda02f821f083b48
>
> cases/basic-pearson_corr/results.json SHA-256: 0100164478e4908b9aa8c42408b4088fa900f485fba394e421ec9a9f369eeabb

15. Spearman Korelasyon

Senaryo: spearman_corr · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient [row=1, col=Katsayi]	0.649131146023025 46	0.64913114602302 535	—	9.999999999999999 5e-08	9.999999999999999 5e-07
p [row=1, col=p]	6.518320873929515 3e-23	6.51832087392967 4e-23	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "spearman_corr",
                   "alpha": 0.05,
  "assumption_auto_select": false,
           "include_plot": false,
        "resampling_draws": 999,
        "resampling_seed": 20260617,
                    "var1": "r1",
                    "var2": "r2"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-spearman_corr/settings.json SHA-256: 164e454905ce1f2d8cda904457aaba2070f8b3466e0fe4439c2378b2884254d9

cases/basic-spearman_corr/results.json SHA-256: c0c6e791dbb00b3cb42e66a8ef013bcce69b95e31412d874c606a6a0e2f26592

16. Kendall Tau

Senaryo: kendall_corr · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient [row=1, col=Katsayi]	0.468280571073867 17	0.468280571073867 11	—	9.999999999999999 5e-08	9.999999999999999 5e-07
p [row=1, col=p]	1.027601048140209 9e-20	1.027601048140213 5e-20	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "kendall_corr",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
       "resampling_draws": 999,
       "resampling_seed": 20260617,
                    "var1": "r1",
                    "var2": "r2"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-kendall_corr/settings.json SHA-256: 6ff5d3219f0482749f0e08542316df560dc87f0333a369aa51e3f426f5f24f18

cases/basic-kendall_corr/results.json SHA-256: c85883605a09dd4ca7d0ec6e38a3e52609534220312f6a10d5bd15207aae3e91

17. Ki-kare Bagimsizlik

Senaryo: chi_square · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=Ki-kare]	3.8448460244188012	3.8448460244188012	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.049899103123052714	0.049899103123052783	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "chi_square",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
       "resampling_draws": 999,
       "resampling_seed": 20260617,
                    "var1": "binary",
```

"var2": "binary2"
}

Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-chi_square/settings.json SHA-256: 7ed8a51d646a1a06b4443054d2b6fe3d17f99d57297fbb2bb3d1aea69a0fa4f6
>
> cases/basic-chi_square/results.json SHA-256: 2ca1fa3f615299a196db4ecd5ebffdafa75312c969da10dd2daf806a5d6f25da

18. Ki-kare Uyum Iyiligi

Senaryo: chi_square_gof · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=chi2]	0	0	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	1	1	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları

{
"test": "chi_square_gof",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"var1": "g",
"null_value": 0.25
}

Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-chi_square_gof/settings.json SHA-256: 54e80e53585f932381ae19b72e1d6cdb242f1933a001ed7aaec2e674603d6479
>
> cases/basic-chi_square_gof/results.json SHA-256: 20ad3d9fbb3bd8500622874583fcc30809e0c3fb9c51026026328628b9fac717

19. Fisher Kesin Testi

Senaryo: fisher_exact · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
p [row=1, col=Exact p]	0.053943231853664154	0.053943231853664182	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "fisher_exact",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "binary",
  "var2": "binary2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-fisher_exact/settings.json SHA-256: 9ae2dab7e38a693e84d5e6240ec088264c4bd926c1af50a0a5d56a411facb6cb
>
> cases/basic-fisher_exact/results.json SHA-256: e5b9c86eadc9ba3fa115fafe414b005a2bdc3994b52249a8f261005e802cd026

20. McNemar

Senaryo: mcnemar · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
p [row=1, col=p]	1	1	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "mcnemar",
  "alpha": 0.05,
  "assumption_auto_select": false,
```

```
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "binary",
  "var2": "binary2"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-mcnemar/settings.json SHA-256: a1b2536f7d45050b8a6655ab2b9c000616c6217f8fed6c218faf51bdb7953b7a

cases/basic-mcnemar/results.json SHA-256: f2f66f10815b49a4147f6282040f5e279ad8a007f9e360520f2c73d2fff28963

21. Cochran Q

Senaryo: cochran_q · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=Q]	9.2340425531914896	9.2340425531914896	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.0098821885697558624	0.0098821885697558606	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
  "test": "cochran_q",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "multi_vars": [
    "binary",
    "binary2",
    "binary3"
  ]
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

> cases/basic-cochran_q/settings.json SHA-256: abbaa93ae43ca2fd8cec6bd3d88e7910f3fd77e48a3471223453a35b33bde142
>
> cases/basic-cochran_q/results.json SHA-256: b7e0ffd1268ed507910362a5d5310f23c79a202a5f94ffdcd3058ec6f9811c2c

22. rANOVA

Senaryo: ranova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=F]	40.001160300793316	40.00116030079335 9	—	9.999999999999999 5e-08	9.999999999999999 5e-07
p [row=1, col=p]	2.0930717525912 8e-16	2.093071752591209 2e-16	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
"test": "ranova",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"multi_vars": [
"r1",
"r2",
"r3"
],
"_ranova_epsilon": 1.0,
"_ranova_correction_label": "Otomatik: düzeltme uygulanmadı"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-ranova/settings.json SHA-256: 9295a33e9213c3caeeb72643b485f845c71d9d8dae80ce63c0aa6c656fd4c353
>
> cases/basic-ranova/results.json SHA-256: a1612cc94f8e74d77cdb579fcc4b440cc9f24071492e1ecd11421191570715d3

23. Karma analiz (klasik F / Wald χ^2)

Senaryo: mixed_anova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
F_1 [row=1, col=F]	0.41899999999999998	0.41907202447521824	—	0.00050000000100000001	9.999999999999995e-07
p_1 [row=1, col=p]	0.658000000000000003	0.658307629698619	—	0.00050000000100000001	9.999999999999995e-07
F_2 [row=2, col=F]	39.655999999999999	39.65590502874209	—	0.00050000000100000001	9.999999999999995e-07
p_2 [row=2, col=p]	< .001	2.8832630750916629e-16	—	—	9.999999999999995e-07
F_3 [row=3, col=F]	0.228000000000000001	0.22751373669590605	—	0.00050000000100000001	9.999999999999995e-07
p_3 [row=3, col=p]	0.923000000000000004	0.92291234380433151	—	0.00050000000100000001	9.999999999999995e-07

Karşılaştırma ayrıntısı

> censored probability in formatted report
>
> formatted report cell only; unrounded application value not exposed

Analiz ayarları


```
{
                    "test": "mixed_anova",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
          "resampling_draws": 999,
         "resampling_seed": 20260617,
                   "group": "g",
              "multi_vars": [
                              "r1",
                              "r2",
                              "r3"
                            ],
            "mixed_method": "classical"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-mixed_anova/settings.json SHA-256: be892558df3826747b3004470070c6eaad57248143dfb9ca5dfbd6b0c30360a5
>
> cases/basic-mixed_anova/results.json SHA-256: 4038fb9bbfc514f37597222fbe9f85de741f5eb9bcef22c3c2de694583a0fe28

24. Friedman

Senaryo: friedman · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=chi2]	50.700000000000273	50.700000000000003	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	9.786668632320875 9e-12	9.786668632322207 2e-12	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "friedman",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
          "resampling_draws": 999,
         "resampling_seed": 20260617,
              "multi_vars": [
                              "r1",
                              "r2",
                              "r3"
                            ]
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-friedman/settings.json SHA-256: 688bb143248867f6b5d529aac572d80cd1ab79076ad2ead2d78a06b12de2d872

cases/basic-friedman/results.json SHA-256: a2fd2c6f036cd1671aca2910683f75e5500ac92cd0249bcc903848daba429a4b

25. ANCOVA

Senaryo: ancova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=F]	1.0603322688594545	1.0603322688594594	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.34854252610341452	0.34854252610341291	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "ancova",
                   "alpha": 0.05,
  "assumption_auto_select": false,
           "include_plot": false,
        "resampling_draws": 999,
        "resampling_seed": 20260617,
                    "var1": "y",
                   "group": "g",
              "multi_vars": [
                             "x"
                             ]
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-ancova/settings.json SHA-256: 01e2571395305de3c8571d46b7fdab62950af1f785da379dca4426214d333d2d
>
> cases/basic-ancova/results.json SHA-256: f03a38157fe058fece40d586056e305b109ef604a46048b5f0133fbfdb9c9c55

26. MANOVA

Senaryo: manova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Pillai [row=1, col=Deger]	0.014563433759932256	0.014563433759932529	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.627806181544460066	0.627806181544460133	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "manova",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
          "resampling_draws": 999,
          "resampling_seed": 20260617,
                   "group": "g",
              "multi_vars": [
                              "y",
                              "y2"
                            ]
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-manova/settings.json SHA-256: 6ff27081082d9bafa825bde419a36eab03fb6e310ef8676e81b97d3c288750ac

cases/basic-manova/results.json SHA-256: 322ca596431e5c3d5856b454bb53d5b499920077df922b9463e34faf6c0e81f8

27. MANCOVA

Senaryo: mancova · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Pillai [row=1, col=Deger]	0.013354414405388485	0.013354414405388412	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.668971248395270 56	0.668971248395273 22	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "mancova",
                   "alpha": 0.05,
  "assumption_auto_select": false,
```

```
                "include_plot": false,
             "resampling_draws": 999,
            "resampling_seed": 20260617,
                    "group": "g",
                "multi_vars": [
                    "y",
                    "y2"
                ],
                "covariates": [
                    "x"
                ]
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-mancova/settings.json SHA-256: 94273d4801850ffc4a74303af6dcb3b2b4cc4141309413b8c935b617189088ae

cases/basic-mancova/results.json SHA-256: 66d4ea26f958b942788b1978edcebc50e83c6b4d9ef9fc48e51c597a46b2096c

28. OLS Regresyon

Senaryo: ols · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=1, col=B]	-0.002813394125932344 7	-0.002813394125932482 6	—	9.999999999999995e-08	9.999999999999995e-07
SE_1 [row=1, col=SE]	0.078493841307864312	0.078493841307864354	—	9.999999999999995e-08	9.999999999999995e-07
p_1 [row=1, col=p]	0.971448551671613 7	0.971448551671612 48	—	9.999999999999995e-08	9.999999999999995e-07
B_2 [row=2, col=B]	0.480760005493868 44	0.480760005493868 21	—	9.999999999999995e-08	9.999999999999995e-07
SE_2 [row=2, col=SE]	0.082504427847724063	0.082504427847724132	—	9.999999999999995e-08	9.999999999999995e-07
p_2 [row=2, col=p]	2.612133320483020 2e-08	2.612133320483120 1e-08	—	9.999999999999995e-08	9.999999999999995e-07
B_3 [row=3, col=B]	0.345951418476833 97	0.345951418476834 14	—	9.999999999999995e-08	9.999999999999995e-07
SE_3 [row=3, col=SE]	0.073830245294229033	0.073830245294229 06	—	9.999999999999995e-08	9.999999999999995e-07
p_3 [row=3, col=p]	5.542959968055305 1e-06	5.542959968055318 6e-06	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
                                                    "test":                    "ols",
                                                   "alpha":                     0.05,
                                  "assumption_auto_select":                    false,
                                       "include_plot":                    false,
                                     "resampling_draws":                      999,
                                    "resampling_seed":                 20260617,
                                                    "var1":                      "y",
                                                 "multi_vars":                      [
                                                                                   "x",
                                                                                   "z"
                                                                                   ]
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-ols/settings.json SHA-256: 70265da0a7813b744b826be52a9d9478b306721c6801303f8177114dcee0d026
>
> cases/basic-ols/results.json SHA-256: aa74f4b4a2b179bcb8f423a11f7ed7686cc2b73e492a4fd81509dd8ad63776a1

29. Hiyerarsik Regresyon

Senaryo: hierarchical_regression · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
R2_1 [row=1, col=R ²]	0.16600000000000001	0.16564080975179021	—	0.00050000000100000001	9.99999999999999995e-07
R2_2 [row=2, col=R ²]	0.25800000000000001	0.25771898332029253	—	0.00050000000100000001	9.99999999999999995e-07
F_change [row=2, col=F-change]	21.956	21.956423989564811	—	0.00050000000100000001	9.99999999999999995e-07

Karşılaştırma ayrıntısı

> formatted report cell only; unrounded application value not exposed

Analiz ayarları


```
{
                                                    "test":                    "hierarchical_regression",
                                                   "alpha":                     0.05,
```

```
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "y",
  "block1_vars": [
    "x"
  ],
  "block2_vars": [
    "z"
  ]
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-hierarchical_regression/settings.json SHA-256: 1af80e263ae36868e33e319c1c99e8e3229db35e259e98cd4260f55189b1ff6d
>
> cases/basic-hierarchical_regression/results.json SHA-256: 904a4340272bfdb027594facdbd78add54bccda38d2087c06335c99ce00a1614

30. Ordinal Lojistik Regresyon

Senaryo: ordinal_logit · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B [row=1, col=B]	-0.065079308451495205	-0.065083056092362354	—	3.0000000000000001e-05	9.9999999999999995e-07
SE [row=1, col=SE]	0.14752115644064698	0.14752136365252588	—	3.0000000000000001e-05	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "ordinal_logit",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "ordinal",
  "multi_vars": [
    "x"
```

]

}

Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-ordinal_logit/settings.json SHA-256: db8f33762386b5b2214090f46cdcff43c81d6b2cd75c8abff841953587b88a1f

cases/basic-ordinal_logit/results.json SHA-256: 388cd8862508821b86228fc5300529956674c1ceb2f2571b0412ed6cb558890f

31. Multinomial Lojistik Regresyon

Senaryo: multinomial_logit · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=1, col=B]	-0.13398830099558667	-0.13398829661931999	—	3.0000000000000001e-05	9.9999999999999995e-07
SE_1 [row=1, col=SE]	0.1870317292764794	0.187031729066337	—	3.0000000000000001e-05	9.9999999999999995e-07
B_2 [row=2, col=B]	0.045230396423916214	0.045230402623724499	—	3.0000000000000001e-05	9.9999999999999995e-07
SE_2 [row=2, col=SE]	0.19653949554492553	0.19653949534437401	—	3.0000000000000001e-05	9.9999999999999995e-07
B_3 [row=3, col=B]	0.019720769442523 43	0.019720765743646701	—	3.0000000000000001e-05	9.9999999999999995e-07
SE_3 [row=3, col=SE]	0.18050898630899032	0.18050898650601699	—	3.0000000000000001e-05	9.9999999999999995e-07
B_4 [row=4, col=B]	-0.081046256080504017	-0.081046254846300195	—	3.0000000000000001e-05	9.9999999999999995e-07
SE_4 [row=4, col=SE]	0.18911137283733231	0.18911137302689099	—	3.0000000000000001e-05	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları

{
"test": "multinomial_logit",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"var1": "ordinal",

"multi_vars": [
"x"
]
}

Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-multinomial_logit/settings.json SHA-256: 9fe69b9779f6cc5bc5b43875cd76efda8c91e32526fb610943c5f18195f494ae

cases/basic-multinomial_logit/results.json SHA-256: c6bb1911c1f06a2c4ebd9d104632a574614a354f99cbef5b58db03e77b4ab6fe

32. Poisson Regresyon

Senaryo: poisson · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B [row=1, col=B]	-0.104	-0.10403337135945612	—	0.00050000000100000001	9.999999999999999e-07
SE [row=1, col=SH]	0.045999999999999999	0.046155045673965098	—	0.00050000000100000001	9.999999999999999e-07
p [row=1, col=p]	0.024	0.024196306443885728	—	0.00050000000100000001	9.999999999999999e-07

Karşılaştırma ayrıntısı

formatted report cell only; unrounded application value not exposed

Analiz ayarları

{
"test": "poisson",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"var1": "count",
"multi_vars": [
"x"
]
}

Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-poisson/settings.json SHA-256: c51d4001d61bfa7c3e4bfc96e26268eb9d9225f45cadfe228ff67c37831b2c9c

> cases/basic-poisson/results.json SHA-256: 1aa0b4ca49adecffc5f4f4923effd528b2d0d1cfef04488f2598c2da8e99703a

33. Lojistik Regresyon

Senaryo: logit · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=1, col=B]	-0.043561055582683236	-0.043561055582683521	—	9.9999999999999995e-08	9.9999999999999995e-07
SE_1 [row=1, col=SE]	0.15097818533295335	0.15097818529650714	—	9.9999999999999995e-08	9.9999999999999995e-07
p_1 [row=1, col=p]	0.77294451807892939	0.77294451802562092	—	9.9999999999999995e-08	9.9999999999999995e-07
B_2 [row=2, col=B]	0.18755054153373987	0.18755054153374007	—	9.9999999999999995e-08	9.9999999999999995e-07
SE_2 [row=2, col=SE]	0.15937120308409347	0.15937120297511212	—	9.9999999999999995e-08	9.9999999999999995e-07
p_2 [row=2, col=p]	0.23926905571220514	0.23926905539093876	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
    "test": "logit",
    "alpha": 0.05,
    "assumption_auto_select": false,
    "include_plot": false,
    "resampling_draws": 999,
    "resampling_seed": 20260617,
    "var1": "binary",
    "multi_vars": [
        "x"
    ]
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-logit/settings.json SHA-256: 361034b2f64f44cfed41495804f377f141734194793c48fb5028dd586d247262
>
> cases/basic-logit/results.json SHA-256: 247ac354df10ddee5b6d21367775aa63f5e61e5123d378a43e6bbc77ef009d91

34. Bootstrap Guven Araligi

Senaryo: bootstrap_ci · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
value_1 [row=1, col=Deger]	-0.12575018961266674	-0.12575018961266701	—	9.9999999999999995e-08	9.9999999999999995e-07
lo_1 [row=1, col=%95 GA Alt]	-0.2651337017253797	-0.2651337017253798	—	9.9999999999999995e-08	9.9999999999999995e-07
hi_1 [row=1, col=%95 GA Ust]	0.024282567419368684	0.024282567419368701	—	9.9999999999999995e-08	9.9999999999999995e-07
value_2 [row=2, col=Deger]	-0.17428218683220459	-0.174282186832205	—	9.9999999999999995e-08	9.9999999999999995e-07
lo_2 [row=2, col=%95 GA Alt]	-0.34276785540971433	-0.342767855409714	—	9.9999999999999995e-08	9.9999999999999995e-07
hi_2 [row=2, col=%95 GA Ust]	0.018568178321432101	0.018568178321432101	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
                    "test": "bootstrap_ci",
                   "alpha": 0.05,
  "assumption_auto_select": false,
            "include_plot": false,
       "resampling_draws": 999,
      "resampling_seed": 20260617,
                    "var1": "x",
              "null_value": 0.25
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

data/basic/bootstrap_indices.csv SHA-256: 76c608153d6f40be30e0a3c8cbcec87ff5d8279d54a04a72695c92c2df62cb49

data/basic/permutation_indices.csv SHA-256: 789fe6830e9d4ddf9ce99afd933611bedf90799fab947281376bafaafca5b21d

cases/basic-bootstrap_ci/settings.json SHA-256: 4104ffe8058a6ab74752f318fa292b4f359cf834ae860dbad814d2504c8cc285

cases/basic-bootstrap_ci/results.json SHA-256: c365e9c1cde8ebb8b093b8e5ccdc05796eb4398dfe75af86f7e7c6123cde1a47

35. Permutasyon Testi

Senaryo: permutation_test · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=statistic]	0.33626070100732963	0.33626070100733002	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.11700000000000001	0.11700000000000001	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "permutation_test",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "y",
  "group": "g",
  "group_a": "A",
  "group_b": "B"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

data/basic/bootstrap_indices.csv SHA-256: 76c608153d6f40be30e0a3c8cbcec87ff5d8279d54a04a72695c92c2df62cb49

data/basic/permutation_indices.csv SHA-256: 789fe6830e9d4ddf9ce99afd933611bedf90799fab947281376bafaafca5b21d

cases/basic-permutation_test/settings.json SHA-256: b9f6d81bd604c7a69c4cd766de39ac134605e51a4db76a4c2ca7960a38d65e06

> cases/basic-permutation_test/results.json SHA-256: 3f119be359bafd74904460ffa76bd957b35e9d26d8a8af6fbd5077aa1fd99ca5

36. Nonparametrik Regresyon

Senaryo: nonparametric_regression · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
spearman_r [row=1, col=Deger]	0.64913114602302546	0.64913114602302535	—	9.9999999999999995e-08	9.9999999999999995e-07
kendall_r [row=1, col=Deger]	0.46828057107386717	0.46828057107386711	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "nonparametric_regression",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "r1",
  "var2": "r2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-nonparametric_regression/settings.json SHA-256: 2c99b25ad98a4404ae72379d577b5d3dd8fd343bd5293df1d842a8bb1620e8a6
>
> cases/basic-nonparametric_regression/results.json SHA-256: 6e4ca9c3ec383bab00c3cb5f07aa8660a34de60a89fc3afc689d443f49137410

37. Duyarlilik/Ozgulluk

Senaryo: diagnostic_metrics · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Duyarlilik [row=1, col=Deger]	0.40700000000000003	0.40697674418604651	—	0.00050000000100000001	9.9999999999999995e-07
Ozgulluk [row=1, col=Deger]	0.44700000000000001	0.44680851063829785	—	0.00050000000100000001	9.9999999999999995e-07
PPV [row=1, col=Deger]	0.40200000000000002	0.40229885057471265	—	0.00050000000100000001	9.9999999999999995e-07
NPV [row=1, col=Deger]	0.45200000000000001	0.45161290322580644	—	0.00050000000100000001	9.9999999999999995e-07
Dogruluk [row=1, col=Deger]	0.42799999999999999	0.42777777777777776	—	0.00050000000100000001	9.9999999999999995e-07
Prevalans [row=1, col=Deger]	0.47799999999999998	0.4777777777777778	—	0.00050000000100000001	9.9999999999999995e-07
LR+ [row=1, col=Deger]	0.7356887298747764	0.7356887298747764	—	9.9999999999999995e-08	9.9999999999999995e-07
LR- [row=1, col=Deger]	1.3272425249169435	1.3272425249169435	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding
>
> percentage displayed to one decimal; raw proportion not exposed

Analiz ayarları


```
{
    "test": "diagnostic_metrics",
    "alpha": 0.05,
    "assumption_auto_select": false,
    "include_plot": false,
    "resampling_draws": 999,
    "resampling_seed": 20260617,
    "var1": "binary",
    "var2": "binary2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-diagnostic_metrics/settings.json SHA-256: 74fbb6747052f7d59f91ef6cfb77a1926671ea4e660a22536e85437ab23a4f03
>
> cases/basic-diagnostic_metrics/results.json SHA-256: 1d0a985918b871b844149a1f0e9f232bf2e33cddb5644f475880c920e38aa0d0

38. Bayes Tarama Yorumu

Senaryo: bayes_screening · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Test oncesi olasilik [row=1, col=Deger]	0.47799999999999998	0.4777777777777778	—	0.00050000000100000001	9.99999999999999995e-07
Pozitif test sonrasi olasilik [row=1, col=Deger]	0.40200000000000002	0.40229885057471265	—	0.00050000000100000001	9.99999999999999995e-07
Negatif test sonrasi olasilik [row=1, col=Deger]	0.54799999999999993	0.54838709677419351	—	0.00050000000100000001	9.99999999999999995e-07
LR+ [row=1, col=Deger]	0.7356887298747764	0.7356887298747764	—	9.99999999999999995e-08	9.99999999999999995e-07
LR- [row=1, col=Deger]	1.3272425249169435	1.3272425249169435	—	9.99999999999999995e-08	9.99999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

percentage displayed to one decimal; raw proportion not exposed

Analiz ayarları


```
{
    "test": "bayes_screening",
    "alpha": 0.05,
    "assumption_auto_select": false,
    "include_plot": false,
    "resampling_draws": 999,
    "resampling_seed": 20260617,
    "var1": "binary",
    "var2": "binary2"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-bayes_screening/settings.json SHA-256: ece243a5f927a8a11f9652113eed4d64811e1589b0543100c51cdb5c2abd4b57

cases/basic-bayes_screening/results.json SHA-256: c08e8c76099eb9bf39427ba7917ea84ff75742d8c8d728f76d93d99f5981087d

39. Relative Risk / Odds Ratio

Senaryo: rr_or · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
RR [row=1, col=Deger]	0.73360378634212309	0.73360378634212309	—	9.99999999999999995e-08	9.99999999999999995e-07
OR [row=1, col=Deger]	0.55429864253393668	0.55429864253393668	—	9.99999999999999995e-08	9.99999999999999995e-07

Karşılaştırma ayrıntısı

> actual runtime value before display rounding

Analiz ayarları


```
{
    "test": "rr_or",
    "alpha": 0.05,
    "assumption_auto_select": false,
    "include_plot": false,
    "resampling_draws": 999,
    "resampling_seed": 20260617,
    "var1": "binary",
    "var2": "binary2"
}
```


Veri ve sonuç dosyaları

> data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f
>
> cases/basic-rr_or/settings.json SHA-256: a810d79cf06f4b4375e4287758c459b53a55431e833a6e2d5d727f597a33ee20
>
> cases/basic-rr_or/results.json SHA-256: ce54e75cb1709147d8ef3b60452c0ccca3755d97047755897c2a7ed92b838986

40. Mantel-Haenszel

Senaryo: mantel_haenszel · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
OR [row=1, col=Ortak OR]	0.54441913439635536	0.54441913439635536	—	9.999999999999999995e-08	9.999999999999999995e-07
chi2 [row=1, col=CMH chi2]	4.0109485298429028	4.0109485298429028	—	9.999999999999999995e-08	9.999999999999999995e-07
p [row=1, col=p]	0.045205711792845715	0.045205711792845917	—	9.999999999999999995e-08	9.999999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları

{
"test": "mantel_haenszel",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,
"resampling_seed": 20260617,
"var1": "binary",
"var2": "binary2",
"factor2": "g"
}

Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-mantel_haenszel/settings.json SHA-256: d9fd73670f9f08d761c98e9dbb4dafa50ab04fb44809a0015f57400907ca6a53

cases/basic-mantel_haenszel/results.json SHA-256: a573fb9c092d065c0d67048dabad1d5c6494d3900ff8795ac467971c6311d698

41. Kaplan-Meier / Log-rank

Senaryo: kaplan_meier · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic [row=1, col=Log-rank chi2]	0.54650134743500023	0.54650134743499501	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=1, col=p]	0.7609020255810115	0.76090202558101361	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları

{
"test": "kaplan_meier",
"alpha": 0.05,
"assumption_auto_select": false,
"include_plot": false,
"resampling_draws": 999,

```
  "resampling_seed": 20260617,
  "var1": "time",
  "event_var": "event",
  "group": "g"
}
```


Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-kaplan_meier/settings.json SHA-256: 4b539ea966ffa285127d43b3b488c1dceb674e551bc1213ef7b4dbcce42f4264

cases/basic-kaplan_meier/results.json SHA-256: 484850497ae98e2194857dd63636f091ecb935adaf72ff184c3de9bc94f7768e

42. Cox Regresyon

Senaryo: cox · CiterLab + R · Girdi satırı: 180

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B [row=1, col=B]	0.091913660158021077	0.091913660158022227	—	9.999999999999995e-08	9.999999999999995e-07
SE [row=1, col=SE]	0.097723629866800291	0.097723629866800249	—	9.999999999999995e-08	9.999999999999995e-07
p [row=1, col=p]	0.34693708858855765	0.34693708858855127	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual runtime value before display rounding

Analiz ayarları


```
{
  "test": "cox",
  "alpha": 0.05,
  "assumption_auto_select": false,
  "include_plot": false,
  "resampling_draws": 999,
  "resampling_seed": 20260617,
  "var1": "time",
  "event_var": "event",
  "multi_vars": [
    "x"
  ]
}
```

Veri ve sonuç dosyaları

data/basic/core.csv SHA-256: a6a9e27ab50597a40edcc423f5ea8a3f407e20b3165476e6ca1da26d9a38568f

cases/basic-cox/settings.json SHA-256: 789defaf78e3aa01fc5cfb9a678089a631d287710a1456f10a5928aec2199b50

cases/basic-cox/results.json SHA-256: cf01853d076ba490b9a6ea7bf22211ed953bb633f5a0edd5b6b1456b928093a6

43. Test–retest korelasyonu

Senaryo: retest · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
r [row=0, col=1]	0.47800514646793879	0.47800514646793885	—	9.999999999999995e-08	9.999999999999995e-07
p [row=0, col=2]	4.1837928334470362e-15	4.1837928334468997e-15	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                    "x":  "x",
                    "y":  "y",
                "draws":  200,
                 "seed":  17,
         "include_plot":  false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/retest_table_0.csv SHA-256: 16a32dfac09e9f54d0f16360c28f6abfd57737a4879a818127c66a7414a9d1d5

cases/advanced-retest/settings.json SHA-256: aa47df1e7cacad3270fb470a146f86d884a92d5668a7f8dd6bdaec5ef324158d

cases/advanced-retest/results.json SHA-256: 1b3e68d341d4bf940e94117b67fccf4a79015268b63ac4372cbce96b8e4e03d3

44. İki yarı / Spearman–Brown

Senaryo: split · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
half_r [row=0, col=0]	0.85513314349943603	0.85513314349943592	—	9.9999999999999995e-08	9.9999999999999995e-07
Spearman_Brown [row=0, col=1]	0.92191026449600599	0.92191026449600599	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                                                    "items":                                    [
                                                                                                "t0",
                                                                                                "t1",
                                                                                                "t2",
                                                                                                "t3"
                                                                                                ],
                                                    "draws":                                    200,
                                                    "seed":                                     17,
                                                    "include_plot":                             false
}
```


Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/split_table_0.csv SHA-256: 3ce44e673a99aab4fa50018b2b7890b791188b62cf72ec2533a0995bba21e4b1
>
> data/advanced/split_table_1.csv SHA-256: 832fd6e249174cb426779df0d4442e650b02e4ea62bfd4ac975a9bbb3904b0f5
>
> cases/advanced-split/settings.json SHA-256: a96280684b7753af683cab2b3f646fb5cb21e36c490c8abde384af93d919be5e
>
> cases/advanced-split/results.json SHA-256: aa32c26ee8a1e96d4d2e30070762fee4c8a53bc40f4e217abde00947f760a80d

45. ICC — tek ölçüm, iki yönlü

Senaryo: icc · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
ICC_A1 [row=0, col=2]	0.6725723815640 8705	0.6725723815640 8705	—	9.999999999999999 5e-08	9.999999999999999 5e-07
ICC_C1 [row=1, col=2]	0.7276483691548 9928	0.7276483691548 9917	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                    "items": [
                               "t0",
                               "t1",
                               "t2",
                               "t3"
                             ],
                    "draws": 200,
                     "seed": 17,
             "include_plot": false
}
```


Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/icc_table_0.csv SHA-256: ff280180c7563d1e51adcf36ace3fe2466eed433533b0cf02cc75f88016ef5dd
>
> data/advanced/icc_table_1.csv SHA-256: 5b826a8c65c0a2eaf5c34c39072d346766c4857f71362cc424248a88c500d6c4
>
> cases/advanced-icc/settings.json SHA-256: a96280684b7753af683cab2b3f646fb5cb21e36c490c8abde384af93d919be5e
>
> cases/advanced-icc/results.json SHA-256: e5238c1a6d28a83b0d2a4ed2f366ecd2fdf20336d7ac1c84d430f8d58c01ffc1

46. Cohen kappa

Senaryo: cohen · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
kappa [row=0, col=2]	0.8740554156171 2852	0.8740554156171 2852	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
  "items": [
    "r1",
    "r2"
  ],
  "draws": 200,
  "seed": 17,
  "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/cohen_table_0.csv SHA-256: d5ba68bffa21b7ef3a9646ad6998bf11fb004e424c3c5aa8179900da273fa9fc

data/advanced/cohen_table_1.csv SHA-256: 8715dbae61cc80a2fcc8082a172d56a2466cc67c968a2b6fb40e634f3c96109e

cases/advanced-cohen/settings.json SHA-256: 2d0c92079877bc8642b769a94d3bd6eeb33249afc5518f5646e15151b258a37d

cases/advanced-cohen/results.json SHA-256: de3cfecaf604873c1f86b688976c2c1adaf00e74d2bb1157fe63ca13487c0555

47. Fleiss kappa

Senaryo: fleiss · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
kappa [row=0, col=2]	0.78839181269532732	0.78839181269532721	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
  "items": [
    "r1",
    "r2",
    "r3"
```

],
"draws": 200,
"seed": 17,
"include_plot": false
}

Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/fleiss_table_0.csv SHA-256: 2e84a220181f6ed94b757dc97d0ad9660bb0894110f43ce1f226373f0007288b
>
> data/advanced/fleiss_table_1.csv SHA-256: f6f3969c8fb67d8a80f350e0bc107b6af6bea5e798856cf795ad83a6295e69df
>
> cases/advanced-fleiss/settings.json SHA-256: 6019702740fe1e5d162e30c981d0ebae52addddb16fafb3c224c31b7fba1305b
>
> cases/advanced-fleiss/results.json SHA-256: 575def7ba63815c3ba2ab85e6a5eb2bb94bac37a15a3c9b3362276b7f5c7d9ad

48. İçerik geçerliği — CVI

Senaryo: cvi · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_1 [row=0, col=2]	0.40000000000000002	0.40000000000000002	—	9.9999999999999995e-08	9.9999999999999995e-07
item_2 [row=1, col=2]	0.80000000000000004	0.80000000000000004	—	9.9999999999999995e-08	9.9999999999999995e-07
item_3 [row=2, col=2]	0.40000000000000002	0.40000000000000002	—	9.9999999999999995e-08	9.9999999999999995e-07
item_4 [row=3, col=2]	0.80000000000000004	0.80000000000000004	—	9.9999999999999995e-08	9.9999999999999995e-07
item_5 [row=4, col=2]	0.59999999999999998	0.59999999999999998	—	9.9999999999999995e-08	9.9999999999999995e-07
item_6 [row=5, col=2]	0.59999999999999998	0.59999999999999998	—	9.9999999999999995e-08	9.9999999999999995e-07
item_7 [row=6, col=2]	0.59999999999999998	0.59999999999999998	—	9.9999999999999995e-08	9.9999999999999995e-07
item_8 [row=7, col=2]	0.59999999999999998	0.59999999999999998	—	9.9999999999999995e-08	9.9999999999999995e-07
item_9 [row=8, col=2]	0.40000000000000002	0.40000000000000002	—	9.9999999999999995e-08	9.9999999999999995e-07
item_10 [row=9, col=2]	0.40000000000000002	0.40000000000000002	—	9.9999999999999995e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_11 [row=10, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_12 [row=11, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_13 [row=12, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_14 [row=13, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_15 [row=14, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_16 [row=15, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_17 [row=16, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_18 [row=17, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_19 [row=18, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_20 [row=19, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_21 [row=20, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_22 [row=21, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_23 [row=22, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_24 [row=23, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_25 [row=24, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_26 [row=25, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_27 [row=26, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_28 [row=27, col=2]	0	0	—	9.999999999999995e-08	9.999999999999995e-07
item_29 [row=28, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_30 [row=29, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_31 [row=30, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_32 [row=31, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_33 [row=32, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_34 [row=33, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_35 [row=34, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_36 [row=35, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_37 [row=36, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_38 [row=37, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_39 [row=38, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_40 [row=39, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_41 [row=40, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_42 [row=41, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_43 [row=42, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_44 [row=43, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_45 [row=44, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_46 [row=45, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_47 [row=46, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_48 [row=47, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_49 [row=48, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_50 [row=49, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_51 [row=50, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_52 [row=51, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_53 [row=52, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_54 [row=53, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_55 [row=54, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_56 [row=55, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_57 [row=56, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_58 [row=57, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_59 [row=58, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_60 [row=59, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_61 [row=60, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_62 [row=61, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_63 [row=62, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_64 [row=63, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_65 [row=64, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_66 [row=65, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_67 [row=66, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_68 [row=67, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_69 [row=68, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_70 [row=69, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_71 [row=70, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_72 [row=71, col=2]	0	0	—	9.999999999999995e-08	9.999999999999995e-07
item_73 [row=72, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_74 [row=73, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_75 [row=74, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_76 [row=75, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_77 [row=76, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_78 [row=77, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_79 [row=78, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_80 [row=79, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_81 [row=80, col=2]	0.2000000000000001	0.2000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_82 [row=81, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_83 [row=82, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_84 [row=83, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_85 [row=84, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_86 [row=85, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_87 [row=86, col=2]	0.2000000000000001	0.2000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_88 [row=87, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_89 [row=88, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_90 [row=89, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_91 [row=90, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_92 [row=91, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_93 [row=92, col=2]	0.2000000000000001	0.2000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_94 [row=93, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_95 [row=94, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_96 [row=95, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_97 [row=96, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_98 [row=97, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_99 [row=98, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_100 [row=99, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_101 [row=100, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_102 [row=101, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_103 [row=102, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_104 [row=103, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_105 [row=104, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_106 [row=105, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_107 [row=106, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_108 [row=107, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_109 [row=108, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_110 [row=109, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_111 [row=110, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_112 [row=111, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_113 [row=112, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_114 [row=113, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_115 [row=114, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_116 [row=115, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_117 [row=116, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_118 [row=117, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_119 [row=118, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_120 [row=119, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_121 [row=120, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_122 [row=121, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_123 [row=122, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_124 [row=123, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_125 [row=124, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_126 [row=125, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_127 [row=126, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_128 [row=127, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_129 [row=128, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_130 [row=129, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_131 [row=130, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_132 [row=131, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_133 [row=132, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_134 [row=133, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_135 [row=134, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_136 [row=135, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_137 [row=136, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_138 [row=137, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_139 [row=138, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_140 [row=139, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_141 [row=140, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_142 [row=141, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_143 [row=142, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_144 [row=143, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_145 [row=144, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_146 [row=145, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_147 [row=146, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_148 [row=147, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_149 [row=148, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_150 [row=149, col=2]	0	0	—	9.999999999999995e-08	9.999999999999995e-07
item_151 [row=150, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_152 [row=151, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_153 [row=152, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_154 [row=153, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_155 [row=154, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_156 [row=155, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_157 [row=156, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_158 [row=157, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_159 [row=158, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_160 [row=159, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_161 [row=160, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_162 [row=161, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_163 [row=162, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_164 [row=163, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_165 [row=164, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_166 [row=165, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_167 [row=166, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_168 [row=167, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_169 [row=168, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_170 [row=169, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_171 [row=170, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_172 [row=171, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_173 [row=172, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_174 [row=173, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_175 [row=174, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_176 [row=175, col=2]	0	0	—	9.999999999999995e-08	9.999999999999995e-07
item_177 [row=176, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_178 [row=177, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_179 [row=178, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_180 [row=179, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_181 [row=180, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_182 [row=181, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_183 [row=182, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_184 [row=183, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_185 [row=184, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_186 [row=185, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_187 [row=186, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_188 [row=187, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_189 [row=188, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_190 [row=189, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_191 [row=190, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_192 [row=191, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_193 [row=192, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_194 [row=193, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_195 [row=194, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_196 [row=195, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_197 [row=196, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_198 [row=197, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_199 [row=198, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_200 [row=199, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_201 [row=200, col=2]	0.80000000000000004	0.80000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_202 [row=201, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_203 [row=202, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_204 [row=203, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_205 [row=204, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_206 [row=205, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_207 [row=206, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_208 [row=207, col=2]	0.20000000000000001	0.20000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_209 [row=208, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_210 [row=209, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_211 [row=210, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_212 [row=211, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_213 [row=212, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_214 [row=213, col=2]	0.40000000000000002	0.40000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_215 [row=214, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_216 [row=215, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_217 [row=216, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_218 [row=217, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_219 [row=218, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_220 [row=219, col=2]	0.59999999999999998	0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_221 [row=220, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_222 [row=221, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_223 [row=222, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_224 [row=223, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_225 [row=224, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_226 [row=225, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_227 [row=226, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_228 [row=227, col=2]	0.2000000000000001	0.2000000000000001	—	9.999999999999995e-08	9.999999999999995e-07
item_229 [row=228, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_230 [row=229, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_231 [row=230, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_232 [row=231, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_233 [row=232, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_234 [row=233, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_235 [row=234, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_236 [row=235, col=2]	0.8000000000000004	0.8000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
item_237 [row=236, col=2]	0.4000000000000002	0.4000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
item_238 [row=237, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_239 [row=238, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_240 [row=239, col=2]	0.5999999999999998	0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
S_CVI_Ave [row=0, col=0]	0.4983333333333329	0.4983333333333335	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
S_CVI_UA [row=0, col=1]	0.029166666666666667	0.029166666666666667	—	9.99999999999999995e-08	9.99999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                                                    "items":                                    [
                                                                                                "cvi0",
                                                                                                "cvi1",
                                                                                                "cvi2",
                                                                                                "cvi3",
                                                                                                "cvi4"
                                                                                                ],
                                                    "draws":                                    200,
                                                    "seed":                                     17,
                                                    "include_plot":                              false
}
```


Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/cvi_table_0.csv SHA-256: f708e5beb1580a56a0961c41f70eb1a4b39bbd4e9b328ea1223fc7125eec3b7b
>
> data/advanced/cvi_table_1.csv SHA-256: 658eb71d3060c3b54a0397a2edf61517332b4322d760b7fe570fdbfaa51cf4a8
>
> cases/advanced-cvi/settings.json SHA-256: 3b5765e64be8aaa5fda59990ee3c5eba3fc504657f592872f44e512681d2bd0b
>
> cases/advanced-cvi/results.json SHA-256: dcbb0d4e4507a3b017956b1da3e425d5a6d4abc5ed29b7ca9fb640257ff1e839

49. İçerik geçerliği — CVR

Senaryo: cvr · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_1 [row=0, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.99999999999999995e-08	9.99999999999999995e-07
item_2 [row=1, col=2]	0.19999999999999996	0.19999999999999996	—	9.99999999999999995e-08	9.99999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_3 [row=2, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_4 [row=3, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_5 [row=4, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_6 [row=5, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_7 [row=6, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_8 [row=7, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_9 [row=8, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_10 [row=9, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_11 [row=10, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_12 [row=11, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_13 [row=12, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_14 [row=13, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_15 [row=14, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_16 [row=15, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_17 [row=16, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_18 [row=17, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_19 [row=18, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_20 [row=19, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_21 [row=20, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_22 [row=21, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_23 [row=22, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_24 [row=23, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_25 [row=24, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_26 [row=25, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_27 [row=26, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_28 [row=27, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_29 [row=28, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_30 [row=29, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_31 [row=30, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_32 [row=31, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_33 [row=32, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_34 [row=33, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_35 [row=34, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_36 [row=35, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_37 [row=36, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_38 [row=37, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_39 [row=38, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_40 [row=39, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_41 [row=40, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_42 [row=41, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_43 [row=42, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_44 [row=43, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_45 [row=44, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_46 [row=45, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_47 [row=46, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_48 [row=47, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_49 [row=48, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_50 [row=49, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_51 [row=50, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_52 [row=51, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_53 [row=52, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_54 [row=53, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_55 [row=54, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_56 [row=55, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_57 [row=56, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_58 [row=57, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_59 [row=58, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_60 [row=59, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_61 [row=60, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_62 [row=61, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_63 [row=62, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_64 [row=63, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_65 [row=64, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_66 [row=65, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_67 [row=66, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_68 [row=67, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_69 [row=68, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_70 [row=69, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_71 [row=70, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_72 [row=71, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_73 [row=72, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_74 [row=73, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_75 [row=74, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_76 [row=75, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_77 [row=76, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_78 [row=77, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_79 [row=78, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_80 [row=79, col=2]	-1	-1	—	9.999999999999995e-08	9.999999999999995e-07
item_81 [row=80, col=2]	-1	-1	—	9.999999999999995e-08	9.999999999999995e-07
item_82 [row=81, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_83 [row=82, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_84 [row=83, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_85 [row=84, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_86 [row=85, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_87 [row=86, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_88 [row=87, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_89 [row=88, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_90 [row=89, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_91 [row=90, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_92 [row=91, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_93 [row=92, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_94 [row=93, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_95 [row=94, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_96 [row=95, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_97 [row=96, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_98 [row=97, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_99 [row=98, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_100 [row=99, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_101 [row=100, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_102 [row=101, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_103 [row=102, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_104 [row=103, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_105 [row=104, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_106 [row=105, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_107 [row=106, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_108 [row=107, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_109 [row=108, col=2]	-0.5999999999999998	-0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_110 [row=109, col=2]	-0.5999999999999998	-0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_111 [row=110, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_112 [row=111, col=2]	0.6000000000000009	0.6000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_113 [row=112, col=2]	0.6000000000000009	0.6000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_114 [row=113, col=2]	-0.5999999999999998	-0.5999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_115 [row=114, col=2]	0.6000000000000009	0.6000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_116 [row=115, col=2]	0.6000000000000009	0.6000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_117 [row=116, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_118 [row=117, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_119 [row=118, col=2]	0.6000000000000009	0.6000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_120 [row=119, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_121 [row=120, col=2]	0.6000000000000009	0.6000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_122 [row=121, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_123 [row=122, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_124 [row=123, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_125 [row=124, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_126 [row=125, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_127 [row=126, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_128 [row=127, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_129 [row=128, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_130 [row=129, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_131 [row=130, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_132 [row=131, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_133 [row=132, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_134 [row=133, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_135 [row=134, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_136 [row=135, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_137 [row=136, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_138 [row=137, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_139 [row=138, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_140 [row=139, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_141 [row=140, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_142 [row=141, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_143 [row=142, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_144 [row=143, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_145 [row=144, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_146 [row=145, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_147 [row=146, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_148 [row=147, col=2]	-1	-1	—	9.999999999999995e-08	9.999999999999995e-07
item_149 [row=148, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_150 [row=149, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_151 [row=150, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_152 [row=151, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_153 [row=152, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_154 [row=153, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_155 [row=154, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_156 [row=155, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_157 [row=156, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_158 [row=157, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_159 [row=158, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_160 [row=159, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_161 [row=160, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_162 [row=161, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_163 [row=162, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_164 [row=163, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_165 [row=164, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_166 [row=165, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_167 [row=166, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_168 [row=167, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_169 [row=168, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_170 [row=169, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_171 [row=170, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_172 [row=171, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_173 [row=172, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_174 [row=173, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_175 [row=174, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_176 [row=175, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_177 [row=176, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_178 [row=177, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_179 [row=178, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_180 [row=179, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_181 [row=180, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_182 [row=181, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_183 [row=182, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_184 [row=183, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_185 [row=184, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_186 [row=185, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_187 [row=186, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_188 [row=187, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_189 [row=188, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_190 [row=189, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_191 [row=190, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_192 [row=191, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_193 [row=192, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_194 [row=193, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_195 [row=194, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_196 [row=195, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_197 [row=196, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_198 [row=197, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_199 [row=198, col=2]	-1	-1	—	9.999999999999995e-08	9.999999999999995e-07
item_200 [row=199, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_201 [row=200, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_202 [row=201, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_203 [row=202, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_204 [row=203, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_205 [row=204, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_206 [row=205, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_207 [row=206, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_208 [row=207, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_209 [row=208, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_210 [row=209, col=2]	1	1	—	9.999999999999995e-08	9.999999999999995e-07
item_211 [row=210, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_212 [row=211, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_213 [row=212, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_214 [row=213, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_215 [row=214, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_216 [row=215, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_217 [row=216, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_218 [row=217, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_219 [row=218, col=2]	-1	-1	—	9.999999999999995e-08	9.999999999999995e-07
item_220 [row=219, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_221 [row=220, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_222 [row=221, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_223 [row=222, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_224 [row=223, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_225 [row=224, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_226 [row=225, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_227 [row=226, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_228 [row=227, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_229 [row=228, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_230 [row=229, col=2]	0.60000000000000009	0.60000000000000009	—	9.999999999999995e-08	9.999999999999995e-07
item_231 [row=230, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_232 [row=231, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_233 [row=232, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
item_234 [row=233, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_235 [row=234, col=2]	-0.59999999999999998	-0.59999999999999998	—	9.999999999999995e-08	9.999999999999995e-07
item_236 [row=235, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_237 [row=236, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_238 [row=237, col=2]	-0.19999999999999996	-0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_239 [row=238, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07
item_240 [row=239, col=2]	0.19999999999999996	0.19999999999999996	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                    "items": [
                               "cvr0",
                               "cvr1",
                               "cvr2",
                               "cvr3",
                               "cvr4"
                             ],
                    "draws": 200,
                     "seed": 17,
             "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/cvr_table_0.csv SHA-256: aa515babb3c5432fa533797bce46e6d383afab3e8b2effec6e2867e2b71cdf44

cases/advanced-cvr/settings.json SHA-256: 6b6872d22bf4b04d5651d3268cd2458d908fd5322c0124e40ce9142e19e9370b

cases/advanced-cvr/results.json SHA-256: 00ccc3d2136d7338141fc696821d3958de5347e4ec5ceefa721c6334b7e3f4b5

50. McDonald omega — tek faktör

Senaryo: omega · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
omega [row=0, col=0]	0.91487545875496012	0.91493943016641566	—	0.002	9.9999999999999995e-07
loading_1 [row=0, col=1]	0.85828824843088858	0.85845079518508716	—	0.002	9.9999999999999995e-07
uniqueness_1 [row=0, col=2]	0.26369491862740924	0.26306235671000655	—	0.002	9.9999999999999995e-07
loading_2 [row=1, col=1]	0.86600800247396792	0.86627363001642443	—	0.002	9.9999999999999995e-07
uniqueness_2 [row=1, col=2]	0.25055477543600424	0.24957030644379777	—	0.002	9.9999999999999995e-07
loading_3 [row=2, col=1]	0.8279390366364342	0.82764502730718181	—	0.002	9.9999999999999995e-07
uniqueness_3 [row=2, col=2]	0.3140127816339775	0.31500533525422031	—	0.002	9.9999999999999995e-07
loading_4 [row=3, col=1]	0.86234095241968844	0.86232851466081972	—	0.002	9.9999999999999995e-07
uniqueness_4 [row=3, col=2]	0.2565793838821836	0.25639009020362397	—	0.002	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                "items": [
                        "t0",
                        "t1",
                        "t2",
                        "t3"
                        ],
                "draws": 200,
                "seed": 17,
                "include_plot": false
}
```

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256:
b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/omega_table_0.csv SHA-256:
9e9d102647a140cb7a4f9b784b26b199ef4bb76d2af1fae92d7f8afee8cadbb9

data/advanced/omega_table_1.csv SHA-256:
0841cc106dc455a5184f977cc849c206b41725ce2ce15b2d2588b1ae2ddfca03

data/advanced/omega_table_2.csv SHA-256:
f5e4098547f6b57ef51878191d43f9a7d13e9e2a7220f3b092a7da2ba09c65bc

cases/advanced-omega/settings.json SHA-256:
a96280684b7753af683cab2b3f646fb5cb21e36c490c8abde384af93d919be5e

cases/advanced-omega/results.json SHA-256:
19166f1d171daf2a1f35057bc5ef5eb329ee2055a6afe6eecc7287b72dab295b

51. Mahalanobis uzaklığı

Senaryo: mahalanobis · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_1 [row=0, col=1]	9.4321839915615922	9.432183991561585	—	9.999999999999995e-08	9.999999999999995e-07
D2_2 [row=1, col=1]	4.3834014400730066	4.3834014400730066	—	9.999999999999995e-08	9.999999999999995e-07
D2_3 [row=2, col=1]	4.4548521594277908	4.4548521594277952	—	9.999999999999995e-08	9.999999999999995e-07
D2_4 [row=3, col=1]	4.2666712298077396	4.2666712298077396	—	9.999999999999995e-08	9.999999999999995e-07
D2_5 [row=4, col=1]	4.2831466048876408	4.283146604887639	—	9.999999999999995e-08	9.999999999999995e-07
D2_6 [row=5, col=1]	4.0789558766322305	4.0789558766322278	—	9.999999999999995e-08	9.999999999999995e-07
D2_7 [row=6, col=1]	3.2735259334526523	3.2735259334526496	—	9.999999999999995e-08	9.999999999999995e-07
D2_8 [row=7, col=1]	6.5372869167919916	6.537286916791988	—	9.999999999999995e-08	9.999999999999995e-07
D2_9 [row=8, col=1]	1.2205982594193463	1.2205982594193467	—	9.999999999999995e-08	9.999999999999995e-07
D2_10 [row=9, col=1]	0.92231314423063493	0.92231314423063449	—	9.999999999999995e-08	9.999999999999995e-07
D2_11 [row=10, col=1]	6.2173407383530135	6.2173407383530126	—	9.999999999999995e-08	9.999999999999995e-07
D2_12 [row=11, col=1]	3.9885891180700037	3.9885891180700379	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_13 [row=12, col=1]	1.1618135788500001	1.161813578849999	—	9.999999999999995e-08	9.999999999999995e-07
D2_14 [row=13, col=1]	3.4374842556599345	3.437484255659935	—	9.999999999999995e-08	9.999999999999995e-07
D2_15 [row=14, col=1]	2.9102198960556747	2.9102198960556742	—	9.999999999999995e-08	9.999999999999995e-07
D2_16 [row=15, col=1]	5.2810530809824527	5.2810530809824501	—	9.999999999999995e-08	9.999999999999995e-07
D2_17 [row=16, col=1]	3.5330252745061741	3.5330252745061723	—	9.999999999999995e-08	9.999999999999995e-07
D2_18 [row=17, col=1]	5.0190446246285276	5.0190446246285241	—	9.999999999999995e-08	9.999999999999995e-07
D2_19 [row=18, col=1]	4.9534601833895238	4.9534601833895255	—	9.999999999999995e-08	9.999999999999995e-07
D2_20 [row=19, col=1]	4.5102895340168985	4.5102895340168985	—	9.999999999999995e-08	9.999999999999995e-07
D2_21 [row=20, col=1]	2.7197759942135509	2.71977599421355	—	9.999999999999995e-08	9.999999999999995e-07
D2_22 [row=21, col=1]	0.9760620909018507	0.9760620909018507	—	9.999999999999995e-08	9.999999999999995e-07
D2_23 [row=22, col=1]	2.3056064230429536	2.3056064230429549	—	9.999999999999995e-08	9.999999999999995e-07
D2_24 [row=23, col=1]	3.5290542998564032	3.5290542998564054	—	9.999999999999995e-08	9.999999999999995e-07
D2_25 [row=24, col=1]	1.8325387007184011	1.8325387007184	—	9.999999999999995e-08	9.999999999999995e-07
D2_26 [row=25, col=1]	8.9225488790225622	8.922548879022564	—	9.999999999999995e-08	9.999999999999995e-07
D2_27 [row=26, col=1]	1.5366384705109746	1.5366384705109746	—	9.999999999999995e-08	9.999999999999995e-07
D2_28 [row=27, col=1]	7.2837364613576057	7.2837364613576083	—	9.999999999999995e-08	9.999999999999995e-07
D2_29 [row=28, col=1]	8.707278826023817	8.707278826023820 5	—	9.999999999999995e-08	9.999999999999995e-07
D2_30 [row=29, col=1]	1.0991663955717919	1.0991663955717921	—	9.999999999999995e-08	9.999999999999995e-07
D2_31 [row=30, col=1]	3.0169289158592987	3.0169289158593022	—	9.999999999999995e-08	9.999999999999995e-07
D2_32 [row=31, col=1]	4.2136524567923876	4.2136524567923876	—	9.999999999999995e-08	9.999999999999995e-07
D2_33 [row=32, col=1]	1.9305643570989814	1.9305643570989819	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_34 [row=33, col=1]	1.0774313080405729	1.0774313080405724	—	9.999999999999995e-08	9.999999999999995e-07
D2_35 [row=34, col=1]	9.841452902182068	9.841452902182063	—	9.999999999999995e-08	9.999999999999995e-07
D2_36 [row=35, col=1]	2.9432508601593255	2.9432508601593281	—	9.999999999999995e-08	9.999999999999995e-07
D2_37 [row=36, col=1]	1.1817233945508652	1.1817233945508658	—	9.999999999999995e-08	9.999999999999995e-07
D2_38 [row=37, col=1]	4.0995628078299635	4.0995628078299653	—	9.999999999999995e-08	9.999999999999995e-07
D2_39 [row=38, col=1]	1.4906918347108835	1.4906918347108837	—	9.999999999999995e-08	9.999999999999995e-07
D2_40 [row=39, col=1]	12.244134889636694	12.24413488963669	—	9.999999999999995e-08	9.999999999999995e-07
D2_41 [row=40, col=1]	4.7924605344061995	4.7924605344062048	—	9.999999999999995e-08	9.999999999999995e-07
D2_42 [row=41, col=1]	0.5769745118906392	0.57697451189063897	—	9.999999999999995e-08	9.999999999999995e-07
D2_43 [row=42, col=1]	0.9069460587927 1095	0.9069460587927 1173	—	9.999999999999995e-08	9.999999999999995e-07
D2_44 [row=43, col=1]	2.2584136501275802	2.2584136501275802	—	9.999999999999995e-08	9.999999999999995e-07
D2_45 [row=44, col=1]	2.0046243980739944	2.0046243980739948	—	9.999999999999995e-08	9.999999999999995e-07
D2_46 [row=45, col=1]	2.4013160806519087	2.4013160806519 1	—	9.999999999999995e-08	9.999999999999995e-07
D2_47 [row=46, col=1]	2.7607078217708714	2.7607078217708709	—	9.999999999999995e-08	9.999999999999995e-07
D2_48 [row=47, col=1]	1.8147168825764535	1.8147168825764544	—	9.999999999999995e-08	9.999999999999995e-07
D2_49 [row=48, col=1]	1.7341190776367 93	1.7341190776367927	—	9.999999999999995e-08	9.999999999999995e-07
D2_50 [row=49, col=1]	5.5524142882787784	5.5524142882787775	—	9.999999999999995e-08	9.999999999999995e-07
D2_51 [row=50, col=1]	3.0942075087104155	3.0942075087104168	—	9.999999999999995e-08	9.999999999999995e-07
D2_52 [row=51, col=1]	4.0059582936484928	4.005958293648491	—	9.999999999999995e-08	9.999999999999995e-07
D2_53 [row=52, col=1]	1.8627600501562687	1.8627600501562682	—	9.999999999999995e-08	9.999999999999995e-07
D2_54 [row=53, col=1]	5.0119729428958877	5.0119729428958841	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_55 [row=54, col=1]	2.7662912790850989	2.7662912790850984	—	9.999999999999995e-08	9.999999999999995e-07
D2_56 [row=55, col=1]	3.6267944786186868	3.6267944786186872	—	9.999999999999995e-08	9.999999999999995e-07
D2_57 [row=56, col=1]	3.9799225870418504	3.9799225870418504	—	9.999999999999995e-08	9.999999999999995e-07
D2_58 [row=57, col=1]	5.4935794941934635	5.4935794941934617	—	9.999999999999995e-08	9.999999999999995e-07
D2_59 [row=58, col=1]	1.0215074578621195	1.0215074578621193	—	9.999999999999995e-08	9.999999999999995e-07
D2_60 [row=59, col=1]	1.1331627458312363	1.1331627458312374	—	9.999999999999995e-08	9.999999999999995e-07
D2_61 [row=60, col=1]	4.635444073525016	4.635444073525151	—	9.999999999999995e-08	9.999999999999995e-07
D2_62 [row=61, col=1]	3.9130480304200659	3.9130480304200672	—	9.999999999999995e-08	9.999999999999995e-07
D2_63 [row=62, col=1]	4.6288130809506596	4.6288130809506596	—	9.999999999999995e-08	9.999999999999995e-07
D2_64 [row=63, col=1]	1.195563768399021	1.1955637683990206	—	9.999999999999995e-08	9.999999999999995e-07
D2_65 [row=64, col=1]	1.6735494528173764	1.6735494528173767	—	9.999999999999995e-08	9.999999999999995e-07
D2_66 [row=65, col=1]	1.3291618409875678	1.3291618409875683	—	9.999999999999995e-08	9.999999999999995e-07
D2_67 [row=66, col=1]	7.5998832152574884	7.5998832152574902	—	9.999999999999995e-08	9.999999999999995e-07
D2_68 [row=67, col=1]	4.1385903670063922	4.138590367006393	—	9.999999999999995e-08	9.999999999999995e-07
D2_69 [row=68, col=1]	1.4963914455275058	1.4963914455275065	—	9.999999999999995e-08	9.999999999999995e-07
D2_70 [row=69, col=1]	2.5397712927049558	2.5397712927049576	—	9.999999999999995e-08	9.999999999999995e-07
D2_71 [row=70, col=1]	1.0255521988145548	1.0255521988145542	—	9.999999999999995e-08	9.999999999999995e-07
D2_72 [row=71, col=1]	0.7950608102972 8359	0.7950608102972 8337	—	9.999999999999995e-08	9.999999999999995e-07
D2_73 [row=72, col=1]	0.7479622151349 4587	0.7479622151349 4554	—	9.999999999999995e-08	9.999999999999995e-07
D2_74 [row=73, col=1]	3.2967019317599435	3.2967019317599426	—	9.999999999999995e-08	9.999999999999995e-07
D2_75 [row=74, col=1]	2.8981010187416474	2.8981010187416487	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_76 [row=75, col=1]	3.6292698539897721	3.6292698539897694	—	9.999999999999995e-08	9.999999999999995e-07
D2_77 [row=76, col=1]	0.42663125357646919	0.42663125357646914	—	9.999999999999995e-08	9.999999999999995e-07
D2_78 [row=77, col=1]	2.6475364738372891	2.6475364738372895	—	9.999999999999995e-08	9.999999999999995e-07
D2_79 [row=78, col=1]	3.9137848609638182	3.9137848609638204	—	9.999999999999995e-08	9.999999999999995e-07
D2_80 [row=79, col=1]	1.305960144300327	1.3059601443003257	—	9.999999999999995e-08	9.999999999999995e-07
D2_81 [row=80, col=1]	0.56917061594737273	0.56917061594737273	—	9.999999999999995e-08	9.999999999999995e-07
D2_82 [row=81, col=1]	1.2873024967780433	1.2873024967780446	—	9.999999999999995e-08	9.999999999999995e-07
D2_83 [row=82, col=1]	5.6342270680883839	5.6342270680883839	—	9.999999999999995e-08	9.999999999999995e-07
D2_84 [row=83, col=1]	5.5941345476087951	5.5941345476087925	—	9.999999999999995e-08	9.999999999999995e-07
D2_85 [row=84, col=1]	6.0454184174485146	6.0454184174485128	—	9.999999999999995e-08	9.999999999999995e-07
D2_86 [row=85, col=1]	2.6903808993681944	2.6903808993681966	—	9.999999999999995e-08	9.999999999999995e-07
D2_87 [row=86, col=1]	7.7608829935095409	7.7608829935095391	—	9.999999999999995e-08	9.999999999999995e-07
D2_88 [row=87, col=1]	7.1793888827484064	7.1793888827484684	—	9.999999999999995e-08	9.999999999999995e-07
D2_89 [row=88, col=1]	4.7197579371887581	4.7197579371887617	—	9.999999999999995e-08	9.999999999999995e-07
D2_90 [row=89, col=1]	2.1595072663697388	2.1595072663697392	—	9.999999999999995e-08	9.999999999999995e-07
D2_91 [row=90, col=1]	2.4856123044636216	2.4856123044636238	—	9.999999999999995e-08	9.999999999999995e-07
D2_92 [row=91, col=1]	1.7731020300580078	1.7731020300580083	—	9.999999999999995e-08	9.999999999999995e-07
D2_93 [row=92, col=1]	5.9718390266146493	5.971839026614651	—	9.999999999999995e-08	9.999999999999995e-07
D2_94 [row=93, col=1]	3.0884656972008369	3.0884656972008369	—	9.999999999999995e-08	9.999999999999995e-07
D2_95 [row=94, col=1]	5.7036927287465753	5.7036927287465788	—	9.999999999999995e-08	9.999999999999995e-07
D2_96 [row=95, col=1]	7.5904307785878693	7.5904307785878675	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_97 [row=96, col=1]	1.8988029602268639	1.8988029602268641	—	9.999999999999995e-08	9.999999999999995e-07
D2_98 [row=97, col=1]	5.279524478154312	5.279524478154156	—	9.999999999999995e-08	9.999999999999995e-07
D2_99 [row=98, col=1]	3.4281768461572608	3.4281768461572613	—	9.999999999999995e-08	9.999999999999995e-07
D2_100 [row=99, col=1]	6.0486666504147255	6.0486666504147291	—	9.999999999999995e-08	9.999999999999995e-07
D2_101 [row=100, col=1]	10.104155501784271	10.104155501784275	—	9.999999999999995e-08	9.999999999999995e-07
D2_102 [row=101, col=1]	9.0919025172563241	9.0919025172563277	—	9.999999999999995e-08	9.999999999999995e-07
D2_103 [row=102, col=1]	0.98858666736763712	0.98858666736763867	—	9.999999999999995e-08	9.999999999999995e-07
D2_104 [row=103, col=1]	7.5385657793966301	7.538565779396631	—	9.999999999999995e-08	9.999999999999995e-07
D2_105 [row=104, col=1]	3.1160870226038084	3.116087022603808	—	9.999999999999995e-08	9.999999999999995e-07
D2_106 [row=105, col=1]	4.7360332067593136	4.7360332067593118	—	9.999999999999995e-08	9.999999999999995e-07
D2_107 [row=106, col=1]	6.5480137497176685	6.5480137497176685	—	9.999999999999995e-08	9.999999999999995e-07
D2_108 [row=107, col=1]	17.350765682508023	17.350765682508003	—	9.999999999999995e-08	9.999999999999995e-07
D2_109 [row=108, col=1]	7.5004457890485572	7.500445789048551	—	9.999999999999995e-08	9.999999999999995e-07
D2_110 [row=109, col=1]	4.5433756634967066	4.5433756634967093	—	9.999999999999995e-08	9.999999999999995e-07
D2_111 [row=110, col=1]	3.1660816101067728	3.1660816101067741	—	9.999999999999995e-08	9.999999999999995e-07
D2_112 [row=111, col=1]	6.8905814236734884	6.8905814236734866	—	9.999999999999995e-08	9.999999999999995e-07
D2_113 [row=112, col=1]	0.91539056669512719	0.91539056669512775	—	9.999999999999995e-08	9.999999999999995e-07
D2_114 [row=113, col=1]	3.8871527292826387	3.8871527292826378	—	9.999999999999995e-08	9.999999999999995e-07
D2_115 [row=114, col=1]	1.5258033705407186	1.525803370540719	—	9.999999999999995e-08	9.999999999999995e-07
D2_116 [row=115, col=1]	1.9596309405968824	1.9596309405968828	—	9.999999999999995e-08	9.999999999999995e-07
D2_117 [row=116, col=1]	1.4358246337534122	1.4358246337534126	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_118 [row=117, col=1]	4.0200073365246958	4.0200073365246949	—	9.999999999999995e-08	9.999999999999995e-07
D2_119 [row=118, col=1]	7.1391724210169105	7.1391724210169141	—	9.999999999999995e-08	9.999999999999995e-07
D2_120 [row=119, col=1]	3.2474657902154824	3.2474657902154815	—	9.999999999999995e-08	9.999999999999995e-07
D2_121 [row=120, col=1]	1.4247870285622177	1.4247870285622168	—	9.999999999999995e-08	9.999999999999995e-07
D2_122 [row=121, col=1]	8.4357468305324268	8.435746830532425	—	9.999999999999995e-08	9.999999999999995e-07
D2_123 [row=122, col=1]	3.0542894602962192	3.0542894602962183	—	9.999999999999995e-08	9.999999999999995e-07
D2_124 [row=123, col=1]	6.0806801663944183	6.0806801663944174	—	9.999999999999995e-08	9.999999999999995e-07
D2_125 [row=124, col=1]	1.447236709048765	1.447236709048765	—	9.999999999999995e-08	9.999999999999995e-07
D2_126 [row=125, col=1]	6.8268802663007726	6.8268802663007717	—	9.999999999999995e-08	9.999999999999995e-07
D2_127 [row=126, col=1]	1.0566874960544523	1.0566874960544528	—	9.999999999999995e-08	9.999999999999995e-07
D2_128 [row=127, col=1]	9.0329962625243088	9.0329962625243123	—	9.999999999999995e-08	9.999999999999995e-07
D2_129 [row=128, col=1]	2.215340480229135	2.2153404802291337	—	9.999999999999995e-08	9.999999999999995e-07
D2_130 [row=129, col=1]	4.3299358749956571	4.329935874995658	—	9.999999999999995e-08	9.999999999999995e-07
D2_131 [row=130, col=1]	8.2479943428169005	8.2479943428169058	—	9.999999999999995e-08	9.999999999999995e-07
D2_132 [row=131, col=1]	4.3346001099717828	4.334600109971781	—	9.999999999999995e-08	9.999999999999995e-07
D2_133 [row=132, col=1]	3.1928036910592748	3.1928036910592721	—	9.999999999999995e-08	9.999999999999995e-07
D2_134 [row=133, col=1]	1.5926305732404871	1.5926305732404866	—	9.999999999999995e-08	9.999999999999995e-07
D2_135 [row=134, col=1]	2.5954201849874736	2.5954201849874741	—	9.999999999999995e-08	9.999999999999995e-07
D2_136 [row=135, col=1]	3.8402621229467409	3.8402621229467422	—	9.999999999999995e-08	9.999999999999995e-07
D2_137 [row=136, col=1]	2.2685914938409306	2.2685914938409311	—	9.999999999999995e-08	9.999999999999995e-07
D2_138 [row=137, col=1]	6.2293315933977595	6.2293315933977622	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_139 [row=138, col=1]	3.5381374780021138	3.5381374780021111	—	9.999999999999995e-08	9.999999999999995e-07
D2_140 [row=139, col=1]	7.101735813305587	7.101735813305897	—	9.999999999999995e-08	9.999999999999995e-07
D2_141 [row=140, col=1]	3.7355741276637744	3.7355741276637766	—	9.999999999999995e-08	9.999999999999995e-07
D2_142 [row=141, col=1]	2.045461304965011	2.045461304965106	—	9.999999999999995e-08	9.999999999999995e-07
D2_143 [row=142, col=1]	2.9796215238724471	2.9796215238724475	—	9.999999999999995e-08	9.999999999999995e-07
D2_144 [row=143, col=1]	3.753502104053227	3.753502104053235	—	9.999999999999995e-08	9.999999999999995e-07
D2_145 [row=144, col=1]	5.7068016940837039	5.7068016940837047	—	9.999999999999995e-08	9.999999999999995e-07
D2_146 [row=145, col=1]	1.8086598015607143	1.8086598015607138	—	9.999999999999995e-08	9.999999999999995e-07
D2_147 [row=146, col=1]	5.2050795608363751	5.2050795608363787	—	9.999999999999995e-08	9.999999999999995e-07
D2_148 [row=147, col=1]	1.5925240088839354	1.5925240088839363	—	9.999999999999995e-08	9.999999999999995e-07
D2_149 [row=148, col=1]	0.80668243302860509	0.80668243302860521	—	9.999999999999995e-08	9.999999999999995e-07
D2_150 [row=149, col=1]	2.6225091437451713	2.6225091437451713	—	9.999999999999995e-08	9.999999999999995e-07
D2_151 [row=150, col=1]	2.1623801401564089	2.1623801401564084	—	9.999999999999995e-08	9.999999999999995e-07
D2_152 [row=151, col=1]	1.7841160615277221	1.7841160615277218	—	9.999999999999995e-08	9.999999999999995e-07
D2_153 [row=152, col=1]	7.3540263877389753	7.354026387738978	—	9.999999999999995e-08	9.999999999999995e-07
D2_154 [row=153, col=1]	8.6162890859019701	8.6162890859019683	—	9.999999999999995e-08	9.999999999999995e-07
D2_155 [row=154, col=1]	2.6688400338188418	2.6688400338188409	—	9.999999999999995e-08	9.999999999999995e-07
D2_156 [row=155, col=1]	0.68941680432113128	0.68941680432113095	—	9.999999999999995e-08	9.999999999999995e-07
D2_157 [row=156, col=1]	0.42607919468112443	0.42607919468112465	—	9.999999999999995e-08	9.999999999999995e-07
D2_158 [row=157, col=1]	1.8559889467603901	1.8559889467603923	—	9.999999999999995e-08	9.999999999999995e-07
D2_159 [row=158, col=1]	0.57933853873782026	0.57933853873782037	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_160 [row=159, col=1]	12.939093656994785	12.939093656994785	—	9.999999999999995e-08	9.999999999999995e-07
D2_161 [row=160, col=1]	3.3409081021762481	3.3409081021762468	—	9.999999999999995e-08	9.999999999999995e-07
D2_162 [row=161, col=1]	3.3905513854339104	3.3905513854339104	—	9.999999999999995e-08	9.999999999999995e-07
D2_163 [row=162, col=1]	5.4059759742963323	5.4059759742963287	—	9.999999999999995e-08	9.999999999999995e-07
D2_164 [row=163, col=1]	4.0842835727853286	4.0842835727853277	—	9.999999999999995e-08	9.999999999999995e-07
D2_165 [row=164, col=1]	5.4198037016123131	5.419803701612314	—	9.999999999999995e-08	9.999999999999995e-07
D2_166 [row=165, col=1]	3.2162957482448951	3.2162957482448955	—	9.999999999999995e-08	9.999999999999995e-07
D2_167 [row=166, col=1]	5.392113031018658	5.392113031018598	—	9.999999999999995e-08	9.999999999999995e-07
D2_168 [row=167, col=1]	10.65259230988806	10.652592309888052	—	9.999999999999995e-08	9.999999999999995e-07
D2_169 [row=168, col=1]	1.6951770690865056	1.6951770690865064	—	9.999999999999995e-08	9.999999999999995e-07
D2_170 [row=169, col=1]	2.5433518963070796	2.5433518963070778	—	9.999999999999995e-08	9.999999999999995e-07
D2_171 [row=170, col=1]	1.202535349386701	1.202535349386701	—	9.999999999999995e-08	9.999999999999995e-07
D2_172 [row=171, col=1]	1.8961137254257101	1.8961137254257083	—	9.999999999999995e-08	9.999999999999995e-07
D2_173 [row=172, col=1]	2.6455850626908566	2.645585062690857	—	9.999999999999995e-08	9.999999999999995e-07
D2_174 [row=173, col=1]	2.2025662239314894	2.2025662239314889	—	9.999999999999995e-08	9.999999999999995e-07
D2_175 [row=174, col=1]	5.4553605106234038	5.4553605106234055	—	9.999999999999995e-08	9.999999999999995e-07
D2_176 [row=175, col=1]	6.5477967922121127	6.5477967922121101	—	9.999999999999995e-08	9.999999999999995e-07
D2_177 [row=176, col=1]	2.6171655636246509	2.6171655636246518	—	9.999999999999995e-08	9.999999999999995e-07
D2_178 [row=177, col=1]	4.6304036848470851	4.6304036848470842	—	9.999999999999995e-08	9.999999999999995e-07
D2_179 [row=178, col=1]	7.7440389928426487	7.7440389928426461	—	9.999999999999995e-08	9.999999999999995e-07
D2_180 [row=179, col=1]	1.9385253019686266	1.9385253019686297	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_181 [row=180, col=1]	10.062980732950319	10.06298073295031	—	9.999999999999995e-08	9.999999999999995e-07
D2_182 [row=181, col=1]	2.6395433504042303	2.6395433504042312	—	9.999999999999995e-08	9.999999999999995e-07
D2_183 [row=182, col=1]	3.4103411196525686	3.410341119652569	—	9.999999999999995e-08	9.999999999999995e-07
D2_184 [row=183, col=1]	2.4321227183724763	2.4321227183724772	—	9.999999999999995e-08	9.999999999999995e-07
D2_185 [row=184, col=1]	1.0657900142870491	1.0657900142870484	—	9.999999999999995e-08	9.999999999999995e-07
D2_186 [row=185, col=1]	1.2375077159717476	1.2375077159717478	—	9.999999999999995e-08	9.999999999999995e-07
D2_187 [row=186, col=1]	3.8497053862058332	3.849705386205835	—	9.999999999999995e-08	9.999999999999995e-07
D2_188 [row=187, col=1]	0.86445055796409098	0.86445055796409154	—	9.999999999999995e-08	9.999999999999995e-07
D2_189 [row=188, col=1]	5.4875650368154956	5.4875650368154947	—	9.999999999999995e-08	9.999999999999995e-07
D2_190 [row=189, col=1]	4.4772268961921924	4.4772268961921879	—	9.999999999999995e-08	9.999999999999995e-07
D2_191 [row=190, col=1]	7.711943279113691	7.711943279113981	—	9.999999999999995e-08	9.999999999999995e-07
D2_192 [row=191, col=1]	0.46403157902892378	0.46403157902892395	—	9.999999999999995e-08	9.999999999999995e-07
D2_193 [row=192, col=1]	2.064284622680943	2.064284622680944	—	9.999999999999995e-08	9.999999999999995e-07
D2_194 [row=193, col=1]	2.8051528329475532	2.8051528329475541	—	9.999999999999995e-08	9.999999999999995e-07
D2_195 [row=194, col=1]	12.11910545272462	12.11910545272623	—	9.999999999999995e-08	9.999999999999995e-07
D2_196 [row=195, col=1]	2.7181478963015007	2.7181478963015002	—	9.999999999999995e-08	9.999999999999995e-07
D2_197 [row=196, col=1]	7.2203862248364796	7.2203862248364823	—	9.999999999999995e-08	9.999999999999995e-07
D2_198 [row=197, col=1]	2.8520761116845388	2.8520761116845401	—	9.999999999999995e-08	9.999999999999995e-07
D2_199 [row=198, col=1]	3.5847268453653331	3.5847268453653331	—	9.999999999999995e-08	9.999999999999995e-07
D2_200 [row=199, col=1]	2.4810084608778835	2.4810084608778853	—	9.999999999999995e-08	9.999999999999995e-07
D2_201 [row=200, col=1]	11.252851193718016	11.252851193718005	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_202 [row=201, col=1]	7.7126381779515851	7.7126381779515816	—	9.999999999999995e-08	9.999999999999995e-07
D2_203 [row=202, col=1]	3.4149661539685265	3.414966153968527	—	9.999999999999995e-08	9.999999999999995e-07
D2_204 [row=203, col=1]	1.9764199942093315	1.9764199942093315	—	9.999999999999995e-08	9.999999999999995e-07
D2_205 [row=204, col=1]	7.0080878899571557	7.0080878899571575	—	9.999999999999995e-08	9.999999999999995e-07
D2_206 [row=205, col=1]	3.9153902293608676	3.9153902293608636	—	9.999999999999995e-08	9.999999999999995e-07
D2_207 [row=206, col=1]	3.3128589233292178	3.3128589233292169	—	9.999999999999995e-08	9.999999999999995e-07
D2_208 [row=207, col=1]	3.9449256815095959	3.9449256815095937	—	9.999999999999995e-08	9.999999999999995e-07
D2_209 [row=208, col=1]	2.1284153064726157	2.1284153064726166	—	9.999999999999995e-08	9.999999999999995e-07
D2_210 [row=209, col=1]	1.9594038464755126	1.9594038464755132	—	9.999999999999995e-08	9.999999999999995e-07
D2_211 [row=210, col=1]	17.906113202795613	17.906113202795602	—	9.999999999999995e-08	9.999999999999995e-07
D2_212 [row=211, col=1]	1.1231396346748193	1.1231396346748197	—	9.999999999999995e-08	9.999999999999995e-07
D2_213 [row=212, col=1]	1.7553705911004009	1.7553705911004012	—	9.999999999999995e-08	9.999999999999995e-07
D2_214 [row=213, col=1]	3.4604869974000647	3.4604869974000625	—	9.999999999999995e-08	9.999999999999995e-07
D2_215 [row=214, col=1]	1.2526165483568101	1.2526165483568099	—	9.999999999999995e-08	9.999999999999995e-07
D2_216 [row=215, col=1]	2.0359530316040648	2.035953031604063	—	9.999999999999995e-08	9.999999999999995e-07
D2_217 [row=216, col=1]	9.4096221079114244	9.4096221079114173	—	9.999999999999995e-08	9.999999999999995e-07
D2_218 [row=217, col=1]	10.385046746195115	10.385046746195112	—	9.999999999999995e-08	9.999999999999995e-07
D2_219 [row=218, col=1]	2.1397940097076225	2.1397940097076207	—	9.999999999999995e-08	9.999999999999995e-07
D2_220 [row=219, col=1]	2.6793892933226764	2.6793892933226773	—	9.999999999999995e-08	9.999999999999995e-07
D2_221 [row=220, col=1]	1.9289572938012503	1.928957293801248	—	9.999999999999995e-08	9.999999999999995e-07
D2_222 [row=221, col=1]	1.8321676239655 1	1.8321676239655109	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
D2_223 [row=222, col=1]	4.1322552359860314	4.1322552359860314	—	9.999999999999995e-08	9.999999999999995e-07
D2_224 [row=223, col=1]	1.3905604855432183	1.3905604855432188	—	9.999999999999995e-08	9.999999999999995e-07
D2_225 [row=224, col=1]	2.3086959586894524	2.3086959586894529	—	9.999999999999995e-08	9.999999999999995e-07
D2_226 [row=225, col=1]	8.0498984112202567	8.0498984112202567	—	9.999999999999995e-08	9.999999999999995e-07
D2_227 [row=226, col=1]	2.2941418049499207	2.2941418049499225	—	9.999999999999995e-08	9.999999999999995e-07
D2_228 [row=227, col=1]	2.3043177816544276	2.304317781654424	—	9.999999999999995e-08	9.999999999999995e-07
D2_229 [row=228, col=1]	1.1345587348221331	1.1345587348221329	—	9.999999999999995e-08	9.999999999999995e-07
D2_230 [row=229, col=1]	0.69569604189203771	0.69569604189203782	—	9.999999999999995e-08	9.999999999999995e-07
D2_231 [row=230, col=1]	5.4309561387623102	5.4309561387623155	—	9.999999999999995e-08	9.999999999999995e-07
D2_232 [row=231, col=1]	0.14879081087632737	0.14879081087632748	—	9.999999999999995e-08	9.999999999999995e-07
D2_233 [row=232, col=1]	1.3324671693495576	1.3324671693495573	—	9.999999999999995e-08	9.999999999999995e-07
D2_234 [row=233, col=1]	10.868530041436818	10.868530041436825	—	9.999999999999995e-08	9.999999999999995e-07
D2_235 [row=234, col=1]	9.8748837768938245	9.874883776893828	—	9.999999999999995e-08	9.999999999999995e-07
D2_236 [row=235, col=1]	5.2669826398746062	5.2669826398746062	—	9.999999999999995e-08	9.999999999999995e-07
D2_237 [row=236, col=1]	6.8862289460127781	6.8862289460127855	—	9.999999999999995e-08	9.999999999999995e-07
D2_238 [row=237, col=1]	0.62716734429223352	0.62716734429223597	—	9.999999999999995e-08	9.999999999999995e-07
D2_239 [row=238, col=1]	1.9922561696128689	1.9922561696128684	—	9.999999999999995e-08	9.999999999999995e-07
D2_240 [row=239, col=1]	2.9134740575588021	2.9134740575588012	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{

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"t0",
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"t3"
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Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
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> data/advanced/mahalanobis_table_0.csv SHA-256: cfefa83556d7c2205aec52d350d4139e126183dbf8a8eb1ea0d2f6d794369c41
>
> cases/advanced-mahalanobis/settings.json SHA-256: a96280684b7753af683cab2b3f646fb5cb21e36c490c8abde384af93d919be5e
>
> cases/advanced-mahalanobis/results.json SHA-256: eadeeda01635665215fed7ac900be92857bb498d04b200c7d3a8d917b8e7892e

52. OLS etkili gözlem tanıları

Senaryo: influence · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_1_1 [row=0, col=1]	0.022089946101236109	0.022089946101236099	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.095255092894955706	0.095255092894955692	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_3 [row=0, col=3]	0.81681343004213658	0.81681343004213658	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_4 [row=0, col=4]	-0.1655648740150473	-0.16556487401504724	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.2097447662175195	0.20974476621751945	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_1 [row=1, col=1]	0.86946552469888982	0.86946552469888994	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.10400980690898186	0.10400980690898189	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_2_3 [row=1, col=3]	5.3860228779337305e-15	5.3860228779338685e-15	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_4 [row=1, col=4]	0.66456370777075846	0.66456370777075857	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_5 [row=1, col=5]	1.0743673416270212	1.0743673416270214	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_1 [row=2, col=1]	-0.010404695102219884	-0.010404695102220207	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.10018512490145118	0.10018512490145123	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_3 [row=2, col=3]	0.91737249462515458	0.91737249462515214	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_4 [row=2, col=4]	-0.20777179664335738	-0.20777179664335774	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_5 [row=2, col=5]	0.18696240643891759	0.18696240643891734	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
    "y": "y",
    "predictors": [
        "x",
        "z"
        ],
    "draws": 200,
    "seed": 17,
    "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/influence_reference.csv SHA-256: 5b85320ad77b1c35edcc86eeebc54260c4229edf34321c63331ddc21c58c7ff3

data/advanced/influence_table_0.csv SHA-256:
cec409e6a5ee5f28852510636aac1430348eac701f14975edf2325331c1dc23e

data/advanced/influence_table_1.csv SHA-256:
f7a188d4cd20a1e4621ea86129e117cfccdd3ea244489d2e6d1cfe0b0bb89795

cases/advanced-influence/settings.json SHA-256:
86cfd2f86fa8a0c7269a71cd327641bd7b0450ae268fb8603e2ef713b488c288

cases/advanced-influence/results.json SHA-256:
79ec31f35aab35735baac563c2552ab15764a16ac08c56113df6ab3dfb9e2393

53. Regresyon varsayımları / VIF / artık grafikleri

Senaryo: regression_checks · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_1_1 [row=0, col=1]	0.022089946101236109	0.022089946101236099	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.095255092894955706	0.095255092894955692	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_1_3 [row=0, col=3]	0.816813430042136580	0.816813430042136580	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_1_4 [row=0, col=4]	-0.165564874015047300	-0.165564874015047240	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.209744766217519500	0.209744766217519450	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_2_1 [row=1, col=1]	0.869465524698889820	0.869465524698889940	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.104009806908981860	0.104009806908981890	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_2_3 [row=1, col=3]	5.386022877933730500e-15	5.386022877933868500e-15	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_2_4 [row=1, col=4]	0.664563707770758460	0.664563707770758570	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_2_5 [row=1, col=5]	1.074367341627021200	1.074367341627021400	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_3_1 [row=2, col=1]	-0.010404695102219884	-0.010404695102220207	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.100185124901451180	0.100185124901451230	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_3_3 [row=2, col=3]	0.917372494625154580	0.917372494625152140	—	9.9999999999999995e-08	9.9999999999999995e-07
coefficient_3_4 [row=2, col=4]	-0.207771796643357380	-0.207771796643357740	—	9.9999999999999995e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_3_5 [row=2, col=5]	0.18696240643891759	0.18696240643891734	—	9.999999999999995e-08	9.999999999999995e-07
VIF_1 [row=0, col=1]	1.0064692522410241	1.0064692522410241	—	9.999999999999995e-08	9.999999999999995e-07
VIF_2 [row=1, col=1]	1.0064692522410241	1.0064692522410241	—	9.999999999999995e-08	9.999999999999995e-07
diagnostic_1 [row=0, col=1]	4.6856586605105832	4.6856586605106312	—	9.999999999999995e-07	9.999999999999995e-07
diagnostic_2 [row=1, col=1]	1.5348167338697776	1.5348167338697736	—	9.999999999999995e-07	9.999999999999995e-07
diagnostic_3 [row=2, col=1]	0.00945684712760002	0.0094568471276047558	—	9.999999999999995e-07	9.999999999999995e-07
diagnostic_4 [row=3, col=1]	2.1265774118114222	2.1265774118114216	—	9.999999999999995e-07	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
    "y": "y",
    "predictors": [
        "x",
        "z"
    ],
    "draws": 200,
    "seed": 17,
    "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/regression_checks_table_0.csv SHA-256: cec409e6a5ee5f28852510636aac1430348eac701f14975edf2325331c1dc23e

data/advanced/regression_checks_table_1.csv SHA-256: f7a188d4cd20a1e4621ea86129e117cfccdd3ea244489d2e6d1cfe0b0bb89795

data/advanced/regression_checks_table_2.csv SHA-256: fb55e237fb2cdbf736f68a3f4773b4b3de55eeff54f8930b2486e270c6e82c81

data/advanced/regression_checks_table_3.csv SHA-256: fd2cb0aa179b68dd1b129ceb4473af55cf6315aaf44962fcf49e02106aa16b84

cases/advanced-regression_checks/settings.json SHA-256: 86cfd2f86fa8a0c7269a71cd327641bd7b0450ae268fb8603e2ef713b488c288

cases/advanced-regression_checks/results.json SHA-256: a9c6170962340c85518dba53c1a35738e5bf32e1a40b231d9b5ce9c691026809

54. OLS duyarlılık / sağlamlık karşılaştırması

Senaryo: sensitivity · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_1_1 [row=0, col=1]	0.022089946101236109	0.022089946101236099	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.095255092894955706	0.095255092894955692	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_3 [row=0, col=3]	0.816813430042136 58	0.816813430042136 58	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_4 [row=0, col=4]	-0.165564874015047 3	-0.165564874015047 24	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.209744766217519 5	0.209744766217519 45	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_1 [row=1, col=1]	0.869465524698889 82	0.869465524698889 94	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.104009806908981 86	0.104009806908981 89	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_3 [row=1, col=3]	5.386022877933730 5e-15	5.386022877933868 5e-15	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_4 [row=1, col=4]	0.664563707770758 46	0.664563707770758 57	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_5 [row=1, col=5]	1.074367341627021 2	1.074367341627021 4	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_1 [row=2, col=1]	-0.010404695102219884	-0.010404695102220207	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.100185124901451 18	0.100185124901451 23	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_3 [row=2, col=3]	0.917372494625154 58	0.917372494625152 14	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_3_4 [row=2, col=4]	-0.20777179664335738	-0.20777179664335774	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_5 [row=2, col=5]	0.18696240643891759	0.18696240643891734	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_1 [row=0, col=1]	0.022089946101236109	0.022089946101236099	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.095006499803616765	0.095006499803616737	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_3 [row=0, col=3]	0.81634270476539195	0.81634270476539184	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_4 [row=0, col=4]	-0.16507513965628914	-0.16507513965628906	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.20925503185876135	0.20925503185876126	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_1 [row=1, col=1]	0.86946552469888982	0.86946552469888994	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.10285032029079633	0.10285032029079633	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_3 [row=1, col=3]	2.9014268488984773e-15	2.9014268488984694e-15	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_4 [row=1, col=4]	0.66684792424832562	0.66684792424832573	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_5 [row=1, col=5]	1.072083125149454	1.072083125149454	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_1 [row=2, col=1]	-0.010404695102219884	-0.010404695102220207	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.10192561144731818	0.1019256114473182	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_3 [row=2, col=3]	0.91877848841910514	0.9187784884191027	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_3_4 [row=2, col=4]	-0.21120059692849971	-0.21120059692849999	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_5 [row=2, col=5]	0.19039120672405993	0.1903912067240596	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_1 [row=0, col=1]	-0.039048374405320919	-0.039048374405320906	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.086025188760033275	0.086025188760033261	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_3 [row=0, col=3]	0.65032350318250998	0.65032350318251031	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_4 [row=0, col=4]	-0.20856240613685129	-0.20856240613685118	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.13046565732620946	0.13046565732620935	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_1 [row=1, col=1]	0.88577971030714053	0.88577971030714042	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.094865924817236505	0.094865924817236533	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_3 [row=1, col=3]	9.6910043036166556e-18	9.69100430361701e-18	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_4 [row=1, col=4]	0.69884486457761652	0.69884486457761641	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_5 [row=1, col=5]	1.0727145560366647	1.0727145560366644	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_1 [row=2, col=1]	-0.12145320080429188	-0.12145320080429167	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.092709418499882804	0.092709418499882804	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_3 [row=2, col=3]	0.19151172750791165	0.19151172750791262	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_3_4 [row=2, col=4]	-0.3041386158080216	-0.30413861580802126	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_5 [row=2, col=5]	0.061232214199437821	0.061232214199437945	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                    "y":  "y",
           "predictors":  [
                           "x",
                           "z"
                         ],
               "draws":  200,
                "seed":  17,
        "include_plot":  false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/sensitivity_table_0.csv SHA-256: cec409e6a5ee5f28852510636aac1430348eac701f14975edf2325331c1dc23e

data/advanced/sensitivity_table_1.csv SHA-256: f7a188d4cd20a1e4621ea86129e117cfccdd3ea244489d2e6d1cfe0b0bb89795

data/advanced/sensitivity_table_2.csv SHA-256: c325264a54b4189705c2b704e87f382081805b7d119d82f1b78bdcf5dd9002e2

data/advanced/sensitivity_table_3.csv SHA-256: ffa150c8bb0b5865ab350803cf81ef3a12b4a11785350a1af333d9f5b618eae4

data/advanced/sensitivity_table_4.csv SHA-256: ccd9c8a22418dfe2fd216652fec66ab201e3070b769f479bd1256622114b3bb7

cases/advanced-sensitivity/settings.json SHA-256: 86cfd2f86fa8a0c7269a71cd327641bd7b0450ae268fb8603e2ef713b488c288

cases/advanced-sensitivity/results.json SHA-256: dbb651d0b7a387906646accd0d30b7efea8a8789e663bf4223c32950745db1e5

55. Kısmi Pearson korelasyonu

Senaryo: partial · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
partial_r [row=0, col=2]	0.47719228411110282	0.47719228411110287	—	9.999999999999995e-08	9.999999999999995e-07
p [row=0, col=4]	5.3860228779339451e-15	5.3860228779339064e-15	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
    "x": "x",
    "y": "y",
    "predictors": [
        "z"
    ],
    "draws": 200,
    "seed": 17,
    "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/partial_table_0.csv SHA-256: 28f8ca3c0f7e24e0117be7949a5c6b5b2bd4d158b97ed7b5df9df4631a7c4f19

cases/advanced-partial/settings.json SHA-256: ebf3e1f5a044b58dae12d4d4f18f20da707f7d0bf17efbc2f99126c43972652d

cases/advanced-partial/results.json SHA-256: bf9c3797eb89608ce352e7944f99a980ce96ff63dbd9a4da32b6bd7c09fd8ac7

56. Point-biserial korelasyon

Senaryo: point · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
point_biserial_r [row=0, col=2]	-0.057317137742953918	-0.057317137742953911	—	9.999999999999995e-08	9.999999999999995e-07
p [row=0, col=4]	0.37667223200289524	0.37667223200289535	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{
"x": "binary",
"y": "y",
"draws": 200,
"seed": 17,
"include_plot": false
}

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/point_table_0.csv SHA-256: 221f8299454c163a90ad267b424fb5d6b7b7dfbff9dae1c78af29ea7bcb6d1fe

cases/advanced-point/settings.json SHA-256: 60d3d74857087c6dbba76882f98cdff9a3483847ca34924ca1801f8f84018df0

cases/advanced-point/results.json SHA-256: 1d5da1d88fbdcbfdb87e7386936c71a16e791b3875b1f63f91fc957df793a81d

57. ANCOVA eğim homojenliği

Senaryo: slopes · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
F [row=0, col=0]	0.6647443511193639 2	0.6647443511193508 2	—	9.9999999999999995e-08	9.9999999999999995e-07
p [row=0, col=3]	0.5153736662732432	0.5153736662732508 7	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{
"y": "y",
"predictors": [
"x",
"z"
],
"group": "g",

"draws": 200,
"seed": 17,
"include_plot": false
}

Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/slopes_table_0.csv SHA-256: 59f449a9276e82058dbc2e05b70a78c7be4b23279e81fe8a56d628e9d9f8dcb8
>
> cases/advanced-slopes/settings.json SHA-256: 91be981a614c926cd55ad71061c14fd7ac74bf19580f48463ef7ec60c464367e
>
> cases/advanced-slopes/results.json SHA-256: db4f5d50d0e063be2498ed037439401478301030259f6ff4a051a973281e7751

58. Faktöriyel ANOVA (2–4 faktör)

Senaryo: factorial · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
F_1 [row=0, col=2]	0.12097278816630049	0.12097278816630951	—	9.999999999999995e-08	9.999999999999995e-07
p_1 [row=0, col=3]	0.72829716557268154	0.72829716557267177	—	9.999999999999995e-08	9.999999999999995e-07
F_2 [row=1, col=2]	0.064619866780630447	0.064619866780625576	—	9.999999999999995e-08	9.999999999999995e-07
p_2 [row=1, col=3]	0.79956282681883128	0.79956282681883883	—	9.999999999999995e-08	9.999999999999995e-07
F_3 [row=2, col=2]	3.4684868503178872	3.4684868503178734	—	9.999999999999995e-08	9.999999999999995e-07
p_3 [row=2, col=3]	0.06381266168015573	0.06381266168015 6257	—	9.999999999999995e-08	9.999999999999995e-07
F_4 [row=3, col=2]	0.078840346765341213	0.078840346765342031	—	9.999999999999995e-08	9.999999999999995e-07
p_4 [row=3, col=3]	0.77912536930617549	0.77912536930617438	—	9.999999999999995e-08	9.999999999999995e-07
F_5 [row=4, col=2]	0.081294373142014764	0.081294373142005508	—	9.999999999999995e-08	9.999999999999995e-07
p_5 [row=4, col=3]	0.77580528833590834	0.77580528833592077	—	9.999999999999995e-08	9.999999999999995e-07
F_6 [row=5, col=2]	0.5103857265474292	0.51038572654742931	—	9.999999999999995e-08	9.999999999999995e-07
p_6 [row=5, col=3]	0.47569011537690242	0.47569011537690253	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
F_7 [row=6, col=2]	3.1130267068909796	3.1130267068909871	—	9.9999999999999995e-08	9.9999999999999995e-07
p_7 [row=6, col=3]	0.078984430922042173	0.078984430922041812	—	9.9999999999999995e-08	9.9999999999999995e-07
F_8 [row=7, col=2]	2.1589795614058001	2.1589795614058054	—	9.9999999999999995e-08	9.9999999999999995e-07
p_8 [row=7, col=3]	0.14309349565217153	0.143093495652171	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
    "y": "y",
    "factors": [
        "g",
        "f",
        "h"
        ],
    "draws": 200,
    "seed": 17,
    "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/factorial_table_0.csv SHA-256: bef72e3cc786ef08a578dfe558066ea7ba88b63adce9c604786571fed9c58d1c

data/advanced/factorial_table_1.csv SHA-256: ffd44c59f4c2a4bb4bb936b73f68e9d6f8cfb2718a0a7a84327401064d3f4c56

cases/advanced-factorial/settings.json SHA-256: 7e0c329657392a819ebcfa4b30e62db6c04914e0b2ebd7baf8946eae588f33b9

cases/advanced-factorial/results.json SHA-256: 6e7dd7bbe16b6009fb57b27cb7355e3dbe413892781f97479a65ae1d58a6593c

59. Little MCAR testi

Senaryo: little · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
MCAR_chi2 [row=0, col=0]	5.6961501023736725	5.6961443325112082	—	0.00020000000000000001	9.999999999999995e-07
p [row=0, col=2]	0.68122469638730143	0.68122534016390768	—	2.0000000000000002e-05	9.999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
    "items": [
        "t0",
        "t1",
        "t2",
        "t3"
    ],
    "draws": 5,
    "seed": 17,
    "include_plot": false
}
```


Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/little_table_0.csv SHA-256: fa55440109fce70349ea4562c783e7754166354e5ecaa6bc32becada0850c9e1
>
> cases/advanced-little/settings.json SHA-256: bc82ee29fcd0b0ca15a011da7e9ed90aa96cee502671efd17f865624781b114c
>
> cases/advanced-little/results.json SHA-256: 1441453d679435e8a9c577d8a470a66b7ccaf7c29d98af124b596bf3951b62a2

60. EM ile normal-model imputasyonu

Senaryo: em · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
completed_mean_1 [row=0, col=1]	0.0027936702576095234	0.0027936683678086477	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_sd_1 [row=0, col=2]	0.92771426848692295	0.92771430315135295	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_mean_2 [row=1, col=1]	0.282743995559325	0.28274399468832756	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_sd_2 [row=1, col=2]	0.88308712830730374	0.88308713066006361	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_mean_3 [row=2, col=1]	0.44679514895679773	0.44679514895679767	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_sd_3 [row=2, col=2]	0.93390925616469456	0.93390925616469456	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_mean_4 [row=3, col=1]	0.60324332223310462	0.60324332223310451	—	3.0000000000000001e-05	9.9999999999999995e-07
completed_sd_4 [row=3, col=2]	0.87242005904996067	0.87242005904996067	—	3.0000000000000001e-05	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                "items":  [
                          "t0",
                          "t1",
                          "t2",
                          "t3"
                          ],
                "draws":  5,
                "seed":  17,
            "include_plot":  false
}
```

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256:
b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/em_completed.csv SHA-256:
9193bd941f9e637a489213f31a070d02f68eb1c754359b87c7cc34909566b24f

data/advanced/em_table_0.csv SHA-256:
f9686dff7874226d37fa355b7b633445737ecffe4f429179b498d976b9c9e515

cases/advanced-em/settings.json SHA-256:
bc82ee29fcd0b0ca15a011da7e9ed90aa96cee502671efd17f865624781b114c

cases/advanced-em/results.json SHA-256:
351bf9f16953403027157b570185d88838ec39f4dad0942ffe9276537145cd87

61. Çoklu imputasyon — Bayesçi zincirli regresyon

Senaryo: mi · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Rubin_1_1 [row=0, col=1]	0.0069887949062544478	0.006988794906254446	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_1_2 [row=0, col=2]	0.06244877024122121	0.062448770241221121	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_1_3 [row=0, col=3]	23256.256092226875	23256.256092226875	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_1_4 [row=0, col=4]	-0.11541491610325846	-0.11541491610325849	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_1_5 [row=0, col=5]	0.12939250591576737	0.12939250591576737	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_2_1 [row=1, col=1]	0.27990659255069017	0.27990659255069017	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_2_2 [row=1, col=2]	0.059501831088034987	0.059501831088033498	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_2_3 [row=1, col=3]	983.59253451830057	983.59253451830409	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_2_4 [row=1, col=4]	0.16314146374778549	0.16314146374778554	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_2_5 [row=1, col=5]	0.39667172135359485	0.3966717213535948	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_3_1 [row=2, col=1]	0.44679514895679773	0.44679514895679767	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_3_2 [row=2, col=2]	0.060283583266580308	0.060283583266580308	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_3_3 [row=2, col=3]	∞	∞	—	0	0

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
Rubin_3_4 [row=2, col=4]	0.32864149689527888	0.32864149689527883	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_3_5 [row=2, col=5]	0.56494880101831657	0.56494880101831657	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_4_1 [row=3, col=1]	0.60324332223310462	0.60324332223310451	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_4_2 [row=3, col=2]	0.056314472659963151	0.056314472659963151	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_4_3 [row=3, col=3]	∞	∞	—	0	0
Rubin_4_4 [row=3, col=4]	0.49286898401121132	0.49286898401121121	—	9.999999999999995e-08	9.999999999999995e-07
Rubin_4_5 [row=3, col=5]	0.71361766045499797	0.71361766045499775	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

Rubin pooling conditional on the same five imputations; the imputation generator is not independently reproduced.

Rubin pooling conditional on the same five imputations; the imputation generator is not independently reproduced.; exact extended-real limit, not a finite scalar comparison

Analiz ayarları


```
{
                    "items": [
                               "t0",
                               "t1",
                               "t2",
                               "t3"
                             ],
                    "draws": 5,
                    "seed": 17,
                    "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/imputation_0.csv SHA-256: 2015e1274ed474309a930c7c288a2287cad49e4b67ea380f6efe1e4ca3c6951a

data/advanced/imputation_1.csv SHA-256: a5c1e8d21d21b4026c4a476d083b2f4d75b48da5abb8d967fb897a3aa9f8f5e2

data/advanced/imputation_2.csv SHA-256: 4783145193cb9c6aeb67b2085c029d62461e9a206c22c6b9c38fb4a782d91c39

data/advanced/imputation_3.csv SHA-256: 9ad3a424fc56ab1ff5c0c5f4d96e90c1c051e158269a8e150160260c58285294

data/advanced/imputation_4.csv SHA-256:
047c50a5ea3564a60fb5d4363ef22a45b0c62abb5afb55edf40b317752de9dc9

data/advanced/mi_table_0.csv SHA-256:
7bdf9e794da4d01aa5a0ef1e59087e211dfccc2b805108af16443be0c5778798

cases/advanced-mi/settings.json SHA-256:
bc82ee29fcd0b0ca15a011da7e9ed90aa96cee502671efd17f865624781b114c

cases/advanced-mi/results.json SHA-256:
3a0de28e9a58e790f1a640724de70d6180397d8880ebcf2e5f8ccc05621d661e

62. GEE — Gaussian

Senaryo: gee_gaussian · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=0, col=1]	0.021846215861845108	0.021846215861844355	—	1.9999999999999999e-06	9.999999999999995e-07
SE_1 [row=0, col=2]	0.086672705620475229	0.086672705620475229	—	1.9999999999999999e-06	9.999999999999995e-07
B_2 [row=1, col=1]	0.871657125310729 59	0.871657125310736 8	—	1.9999999999999999e-06	9.999999999999995e-07
SE_2 [row=1, col=2]	0.097799351910854843	0.097799351910850 79	—	1.9999999999999999e-06	9.999999999999995e-07
B_3 [row=2, col=1]	-0.00767820433237 42975	-0.00767820433236 54313	—	1.9999999999999999e-06	9.999999999999995e-07
SE_3 [row=2, col=2]	0.093754500477680081	0.093754500477682495	—	1.9999999999999999e-06	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                    "y":  "y",
          "predictors":  [
                           "x",
                           "z"
                         ],
              "subject":  "id",
                "draws":  200,
                 "seed":  17,
         "include_plot":  false
}
```

Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/gee_gaussian_table_0.csv SHA-256: 455c2eac3d21987a6cfe663ed28aa03c4ab1b65c93eb14ca8eea6517f338c041
>
> cases/advanced-gee_gaussian/settings.json SHA-256: 45f05617f5a9de468f0d54292951e178809b340d098ac2d776501af5e9af6c0f
>
> cases/advanced-gee_gaussian/results.json SHA-256: 957ac0a20eed988e3701f6201eabfb261c8e54ebbd6dd572e3ee154aa0dbe8d3

63. GEE — Binomial

Senaryo: gee_binomial · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=0, col=1]	-0.043612802303969134	-0.043612802306168201	—	1.9999999999999999e-06	9.9999999999999995e-07
SE_1 [row=0, col=2]	0.13281565363321704	0.13281565363360859	—	1.9999999999999999e-06	9.9999999999999995e-07
B_2 [row=1, col=1]	-0.045893764720419186	-0.045893764736003553	—	1.9999999999999999e-06	9.9999999999999995e-07
SE_2 [row=1, col=2]	0.14392294284735144	0.14392294284715709	—	1.9999999999999999e-06	9.9999999999999995e-07
B_3 [row=2, col=1]	-0.075503297384847276	-0.075503297354188662	—	1.9999999999999999e-06	9.9999999999999995e-07
SE_3 [row=2, col=2]	0.14023173086729876	0.14023173086920868	—	1.9999999999999999e-06	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                    "y":  "binary",
           "predictors":  [
                           "x",
                           "z"
                          ],
              "subject":  "id",
               "draws":  200,
                "seed":  17,
        "include_plot":  false
}
```

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/gee_binomial_table_0.csv SHA-256: b90a0332d3ac305156092a869653b187dcfff4d8a29e4149c2d375ccbcf748f1

cases/advanced-gee_binomial/settings.json SHA-256: 5e0ef9070c6cf1035e956f14881ac31135895e6beb5a39178ef69940ea491339

cases/advanced-gee_binomial/results.json SHA-256: 8181be5e8e3c5169c9137a76f7c721b5a3db145bb4c3fc3b899ed349ba5bba93

64. GEE — Poisson

Senaryo: gee_poisson · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=0, col=1]	0.6563716725325409 2	0.6563716725407216	—	1.9999999999999999e-06	9.999999999999999e-07
SE_1 [row=0, col=2]	0.0686352056463692 27	0.0686352056462264 1	—	1.9999999999999999e-06	9.999999999999999e-07
B_2 [row=1, col=1]	0.0342390481625753 57	0.0342390481479552 74	—	1.9999999999999999e-06	9.999999999999999e-07
SE_2 [row=1, col=2]	0.0803021304340632 99	0.0803021304346417 8	—	1.9999999999999999e-06	9.999999999999999e-07
B_3 [row=2, col=1]	0.0807788424997377 13	0.0807788424864849 11	—	1.9999999999999999e-06	9.999999999999999e-07
SE_3 [row=2, col=2]	0.0579943480934213 55	0.0579943480928263 17	—	1.9999999999999999e-06	9.999999999999999e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                    "y":  "count",
           "predictors":  [
                           "x",
                           "z"
                          ],
              "subject":  "id",
               "draws":  200,
                "seed":  17,
        "include_plot":  false
}
```

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256:
b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/gee_poisson_table_0.csv SHA-256:
7efde97a0c6404722e6eae08f402262bf8c23f711d7ef72b848293a8d8f3d2dd

cases/advanced-gee_poisson/settings.json SHA-256:
4bf24d63f631d435a0172eebaac17a4d129af87331a9dea0c3c427e91bf90ea8

cases/advanced-gee_poisson/results.json SHA-256:
271798270572c3563423954a68f024583d3969774cae398b8c2d711a45845d0f

65. Negatif binom regresyonu — NB2

Senaryo: negative_binomial · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
B_1 [row=0, col=1]	0.65306630728745629	0.65306434280142234	—	2.0000000000000002e-05	9.999999999999995e-07
SE_1 [row=0, col=2]	0.06120086478229466	0.061200941798158978	—	2.0000000000000002e-05	9.999999999999995e-07
B_2 [row=1, col=1]	0.05346163583239124	0.053460586724650823	—	2.0000000000000002e-05	9.999999999999995e-07
SE_2 [row=1, col=2]	0.065249451976152728	0.065249533239702007	—	2.0000000000000002e-05	9.999999999999995e-07
B_3 [row=2, col=1]	0.10061003552606985	0.10060864872978788	—	2.0000000000000002e-05	9.999999999999995e-07
SE_3 [row=2, col=2]	0.064461212591460967	0.064461296741873522	—	2.0000000000000002e-05	9.999999999999995e-07
B_4 [row=3, col=1]	0.36530746767057209	0.36530951384244476	—	2.0000000000000002e-05	9.999999999999995e-07
SE_4 [row=3, col=2]	0.088413553110324061	0.088413966826092283	—	2.0000000000000002e-05	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{
"y": "count",
"predictors": [
"x",
"z"
],
"draws": 200,
"seed": 17,

"include_plot": false
}

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/negative_binomial_table_0.csv SHA-256: c7c93bf8cdd7985ddaf2941e43a064b6476fd9e99585b91aec6714dfac0fdc5e

cases/advanced-negative_binomial/settings.json SHA-256: e6f4952818366a4cd6690960678a2a02cfd34f11323055caee3f6748e54cc1e3

cases/advanced-negative_binomial/results.json SHA-256: 89875df47de992e4e4a52f4068616e5c264d776b8fd8628685bb97137c2c139e

66. Mauchly / GG ve HF epsilon

Senaryo: mauchly · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
sphericity_1 [row=0, col=0]	0.9749583446950587 1	0.9749583446950587 1	—	9.9999999999999995e-08	9.9999999999999995e-07
sphericity_2 [row=0, col=1]	6.0287620919192495	6.0287620919192495	—	9.9999999999999995e-08	9.9999999999999995e-07
sphericity_3 [row=0, col=2]	5	5	—	9.9999999999999995e-08	9.9999999999999995e-07
sphericity_4 [row=0, col=3]	0.3034302957041523 1	0.3034302957041519 8	—	9.9999999999999995e-08	9.9999999999999995e-07
sphericity_5 [row=0, col=4]	0.9825205806384187 4	0.9825205806384182 9	—	9.9999999999999995e-08	9.9999999999999995e-07
sphericity_6 [row=0, col=5]	0.9961272775732507	0.9961272775732503 7	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{
"items": [
"t0",
"t1",
"t2",

"t3"
],
"draws": 200,
"seed": 17,
"include_plot": false
}

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/mauchly_table_0.csv SHA-256: e9029848c5e3f7ab92400b2515c7de9bcf9bf591eebaaeb7a0e6243531f36304

cases/advanced-mauchly/settings.json SHA-256: a96280684b7753af683cab2b3f646fb5cb21e36c490c8abde384af93d919be5e

cases/advanced-mauchly/results.json SHA-256: 227f7443203272ebd0a2b11feef3cf9a1b88e4fbbd070a45b6880acd13644d69

67. Box’s M

Senaryo: boxm · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
BoxM_1 [row=0, col=0]	17.019882077059037	17.019882077059037	—	9.999999999999995e-08	9.999999999999995e-07
BoxM_2 [row=0, col=1]	16.712380005918895	16.712380005918895	—	9.999999999999995e-08	9.999999999999995e-07
BoxM_3 [row=0, col=2]	10	10	—	9.999999999999995e-08	9.999999999999995e-07
BoxM_4 [row=0, col=3]	0.080975519255785347	0.080975519255785403	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{
"items": [
"t0",
"t1",
"t2",
"t3"
],
"group": "g",
"draws": 200,

"seed": 17,
"include_plot": false
}

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/boxm_table_0.csv SHA-256: 4b67a7f1190f41c98f44273be833c3d38e2d7a7da72c020a2a3f8d14c707528e

cases/advanced-boxm/settings.json SHA-256: 3ba660862344e66ccc66a168c42b5b91e3b92d2d632995fa22f603e9128579cc

cases/advanced-boxm/results.json SHA-256: c81e99abdd349a6a3b42a2e9e5418417e3adc89f1ba7fbfe6ef44a7be4649dc1

68. İki yönlü MANOVA

Senaryo: two_manova · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_0_Pillai_1 [row=1, col=0]	0.5366856309310208 4	0.5366856309310217 3	—	9.999999999999995e-08	9.999999999999995e-07
term_0_Pillai_2 [row=1, col=1]	4	4	—	9.999999999999995e-08	9.999999999999995e-07
term_0_Pillai_3 [row=1, col=2]	233	233	—	9.999999999999995e-08	9.999999999999995e-07
term_0_Pillai_4 [row=1, col=3]	67.47457037551456	67.47457037551481 6	—	9.999999999999995e-08	9.999999999999995e-07
term_0_Pillai_5 [row=1, col=4]	7.541611085013718 6e-38	7.541611085011977 1e-38	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_1 [row=1, col=0]	0.0178385653774047 4	0.0178385653774049 97	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_2 [row=1, col=1]	4	4	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_3 [row=1, col=2]	233	233	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_4 [row=1, col=3]	1.057969083904326 5	1.057969083904341 9	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_1_Pillai_5 [row=1, col=4]	0.37809507572438744	0.37809507572437978	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_1 [row=1, col=0]	0.007021055350404511	0.0070210553504045335	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_2 [row=1, col=1]	4	4	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_3 [row=1, col=2]	233	233	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_4 [row=1, col=3]	0.41186822375713439	0.41186822375713572	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_5 [row=1, col=4]	0.80001340761280448	0.8000134076128036	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_1 [row=1, col=0]	0.007443749618313 2282	0.007443749618313 2352	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_2 [row=1, col=1]	4	4	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_3 [row=1, col=2]	233	233	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_4 [row=1, col=3]	0.43685021891706949	0.43685021891706999	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_5 [row=1, col=4]	0.78192046530818766	0.78192046530818737	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları

{
"items": [
"t0",
"t1",
"t2",
"t3"
],
"factors": [

```
                "g",
                "f"
            ],
        "draws": 200,
        "seed": 17,
    "include_plot": false
}
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Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/two_manova_table_0.csv SHA-256: 4d25841544170b27a4b70b754225a973968f1c8a8696416e1c93a3fd596ec401

data/advanced/two_manova_table_1.csv SHA-256: 679ebc6e3b27a364f92ab32fa9ae040cc53929abad1b97051a8e695b3888539e

data/advanced/two_manova_table_2.csv SHA-256: c026a18903b3aef60991e05f9e9428182319efc6084d398d3094ee955f16c552

data/advanced/two_manova_table_3.csv SHA-256: 4fc535d689df1dd1071b05e32c00c3918ccebb833ab84379abe60ed36738dd85

data/advanced/two_manova_table_4.csv SHA-256: ceb1e3483f986393a79b7a9c76c8b737948a5bad0e9d420c33d61ec7c8eaacd4

cases/advanced-two_manova/settings.json SHA-256: 3506bb7d012bc4301f3c8048c7ce9082cb4ea580091e4f4d1bd92946e613431c

cases/advanced-two_manova/results.json SHA-256: 6cbd249b35b377780381cf8406cf53e585bc4ffbdc22a4b982f0bb69572a45ed

69. Tekrarlı ölçüm MANOVA

Senaryo: rm_manova · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_0_Pillai_1 [row=1, col=0]	0.4821100771956521 3	0.4821100771956522 4	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_0_Pillai_2 [row=1, col=1]	3	3	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_0_Pillai_3 [row=1, col=2]	236	236	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_0_Pillai_4 [row=1, col=3]	73.231764259910605	73.231764259910634	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_0_Pillai_5 [row=1, col=4]	1.6342291648599223e-33	1.6342291648598676e-33	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_1_Pillai_1 [row=1, col=0]	0.008410984624982 0729	0.008410984624982 0295	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_1_Pillai_2 [row=1, col=1]	3	3	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_1_Pillai_3 [row=1, col=2]	236	236	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_1_Pillai_4 [row=1, col=3]	0.667276576860507 45	0.667276576860504 12	—	9.999999999999999 5e-08	9.999999999999999 5e-07
term_1_Pillai_5 [row=1, col=4]	0.572904938599533 73	0.572904938599536 62	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_1_1 [row=0, col=1]	0.326436632609967 25	0.326436632609967 03	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_1_2 [row=0, col=2]	0.052149962326526 134	0.052149962326526 189	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_1_3 [row=0, col=3]	1.783300638925921 7e-09	1.783300638926026 1e-09	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_1_4 [row=0, col=4]	0.223702170061028 33	0.223702170061027 99	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_1_5 [row=0, col=5]	0.429171095158906 17	0.429171095158906 06	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_2_1 [row=1, col=1]	-0.075568847729278 105	-0.075568847729277 98	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_2_2 [row=1, col=2]	0.052149962326526 293	0.052149962326526 279	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_2_3 [row=1, col=3]	0.148634851611189 11	0.148634851611189 78	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_2_4 [row=1, col=4]	-0.178303310278217 36	-0.178303310278217 16	—	9.999999999999999 5e-08	9.999999999999999 5e-07
coefficient_2_5 [row=1, col=5]	0.027165614819661 149	0.027165614819661 218	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                                                    "items":                                    [
                                                                                                "t0",
                                                                                                "t1",
                                                                                                "t2",
                                                                                                "t3"
                                                                                                ],
                                                "optional_group":                               "g",
                                                    "draws":                                    200,
                                                    "seed":                                     17,
                                                "include_plot":                                 false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/rm_manova_table_0.csv SHA-256: 51436ed82d85410cd094347457ec2e3b3507a49816adc8bde42a86789270e561

data/advanced/rm_manova_table_1.csv SHA-256: 6b60d56efcb819a12c83cd5265dc1501183dc650235514175929da96d6cd1293

data/advanced/rm_manova_table_2.csv SHA-256: 67e191b5363491c79dcab3ac03f63ecc75f5640f5e47abac6fbc3da0ef258ebe

data/advanced/rm_manova_table_3.csv SHA-256: 410e20c46d381f96f15cb25b7a070472bdd3fe3ae8058e6fe175cc96c4d6b603

cases/advanced-rm_manova/settings.json SHA-256: 8719cd29e36376251ecb1ebcbe6d0468793f0dbd3ecc1c4e61e07c49264f0361

cases/advanced-rm_manova/results.json SHA-256: a84a606bdec2894d2063bc4ee4a2c02a29c3330f9562e74ca98735903ab113d7

70. RM / Mixed ANCOVA — çok değişkenli yaklaşım

Senaryo: rmancova · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_0_Pillai_1 [row=1, col=0]	0.48538832732944615	0.48538832732944609	—	9.9999999999999995e-08	9.9999999999999995e-07
term_0_Pillai_2 [row=1, col=1]	3	3	—	9.9999999999999995e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_0_Pillai_3 [row=1, col=2]	234	234	—	9.999999999999995e-08	9.999999999999995e-07
term_0_Pillai_4 [row=1, col=3]	73.570600012282171	73.570600012282156	—	9.999999999999995e-08	9.999999999999995e-07
term_0_Pillai_5 [row=1, col=4]	1.499808568086399e-33	1.499808568086393e-33	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_1 [row=1, col=0]	0.007743997982290 2828	0.007743997982290 4069	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_2 [row=1, col=1]	3	3	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_3 [row=1, col=2]	234	234	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_4 [row=1, col=3]	0.608745970183470 21	0.608745970183479 98	—	9.999999999999995e-08	9.999999999999995e-07
term_1_Pillai_5 [row=1, col=4]	0.609937076709551 55	0.609937076709545 56	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_1 [row=1, col=0]	0.005721126729789 3591	0.005721126729789 3826	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_2 [row=1, col=1]	3	3	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_3 [row=1, col=2]	234	234	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_4 [row=1, col=3]	0.448815615940675 09	0.448815615940676 93	—	9.999999999999995e-08	9.999999999999995e-07
term_2_Pillai_5 [row=1, col=4]	0.718369802973998 66	0.718369802973997 33	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_1 [row=1, col=0]	0.042002167494476 494	0.042002167494476 418	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_2 [row=1, col=1]	3	3	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
term_3_Pillai_3 [row=1, col=2]	234	234	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_4 [row=1, col=3]	3.4198084310908681	3.4198084310908614	—	9.999999999999995e-08	9.999999999999995e-07
term_3_Pillai_5 [row=1, col=4]	0.018044540989975412	0.018044540989975558	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_1 [row=0, col=1]	0.3264366326099673	0.32643663260996703	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.052294852114383041	0.052294852114383096	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_3 [row=0, col=3]	1.9846680529535246e-09	1.9846680529536623e-09	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_4 [row=0, col=4]	0.22341227787154366	0.22341227787154333	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.42946098734839094	0.42946098734839072	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_1 [row=1, col=1]	-0.077977758113079804	-0.077977758113080331	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.052402038638636537	0.052402038638636551	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_3 [row=1, col=3]	0.13806810756782559	0.13806810756782295	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_4 [row=1, col=4]	-0.18121327747003452	-0.18121327747003499	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_5 [row=1, col=5]	0.025257761243874896	0.025257761243874327	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_1 [row=2, col=1]	-0.04349561549981347	-0.043495615499813449	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.057324990779560187	0.057324990779560166	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_3_3 [row=2, col=3]	0.44875632318003689	0.44875632318003744	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_4 [row=2, col=4]	-0.15642967968901	-0.15642967968900987	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_5 [row=2, col=5]	0.06943844868938305	0.06943844868938298 1	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_1 [row=3, col=1]	0.02148009624766321 3	0.02148009624766314 4	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_2 [row=3, col=2]	0.05525643860336493 9	0.05525643860336489 1	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_3 [row=3, col=3]	0.69782287594362569	0.69782287594362669	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_4 [row=3, col=4]	-0.08737878186529878	-0.08737878186529869 6	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_5 [row=3, col=5]	0.13033897436062519	0.13033897436062497	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


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{
                    "items": [
                      "t0",
                      "t1",
                      "t2",
                      "t3"
                    ],
                    "predictors": [
                      "x",
                      "z"
                    ],
                    "optional_group": "g",
                    "draws": 200,
                    "seed": 17,
                    "include_plot": false
}
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Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/rmancova_table_0.csv SHA-256: de236a8dd22c9a2c8c450926cad1b421406c0322956c2e5e91528244dd7e4487

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data/advanced/rmancova_table_2.csv SHA-256: 642896bcaab50c82c8858fe3610521148815ffac552e0e68cb6c52203d3b74f3

data/advanced/rmancova_table_3.csv SHA-256: d81fdbbf6a8a024dcff9b96f182f0b2053980f4993927a53d8a40fae32e14668

data/advanced/rmancova_table_4.csv SHA-256: 489986f4bce15b7c9bf7f4d434f73a8f7efb926205be73311b995fc03ccf3cdf

data/advanced/rmancova_table_5.csv SHA-256: a2b40149e5e3b818d6f46c6d0000e61212c72ea50b5d164883e5e9788dc47549

cases/advanced-rmancova/settings.json SHA-256: a6f58efc419286ca22e0e80841ce096575ab3e7abf1a441bdcf9f9062f27b1cd

cases/advanced-rmancova/results.json SHA-256: 843cc3006c31d37ed646061edc2c08f527af9fe38037e6480afd4938e55e2f89

71. Genel / genelleştirilmiş doğrusal model

Senaryo: linear_models · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
linear_1_1 [row=0, col=1]	0.1562894608258906	0.1562894608258901 5	—	9.999999999999999 5e-08	9.999999999999999 5e-07
linear_1_2 [row=0, col=2]	0.1652985261563911 2	0.1652985261563906 5	—	9.999999999999999 5e-08	9.999999999999999 5e-07
linear_1_3 [row=0, col=3]	0.9454982113876990 7	0.9454982113876990 7	—	9.999999999999999 5e-08	9.999999999999999 5e-07
linear_1_4 [row=0, col=4]	0.3453757154372510 4	0.3453757154372507 6	—	9.999999999999999 5e-08	9.999999999999999 5e-07
linear_1_5 [row=0, col=5]	-0.1693668288329028 5	-0.1693668288329022 4	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
linear_1_6 [row=0, col=6]	0.48194575048468402	0.48194575048468258	—	9.999999999999995e-08	9.999999999999995e-07
linear_2_1 [row=1, col=1]	-0.00081839174035432116	-0.00081839174035421383	—	9.999999999999995e-08	9.999999999999995e-07
linear_2_2 [row=1, col=2]	0.19031542160675088	0.19031542160675108	—	9.999999999999995e-08	9.999999999999995e-07
linear_2_3 [row=1, col=3]	-0.0043001861512062091	-0.0043001861512056041	—	9.999999999999995e-08	9.999999999999995e-07
linear_2_4 [row=1, col=4]	0.99657260657295721	0.99657260657295754	—	9.999999999999995e-08	9.999999999999995e-07
linear_2_5 [row=1, col=5]	-0.37576071885261064	-0.37576071885261081	—	9.999999999999995e-08	9.999999999999995e-07
linear_2_6 [row=1, col=6]	0.37412393537190203	0.37412393537190242	—	9.999999999999995e-08	9.999999999999995e-07
linear_3_1 [row=2, col=1]	-0.26658294341590871	-0.26658294341590916	—	9.999999999999995e-08	9.999999999999995e-07
linear_3_2 [row=2, col=2]	0.19067988430303168	0.19067988430303162	—	9.999999999999995e-08	9.999999999999995e-07
linear_3_3 [row=2, col=3]	-1.3980653721828917	-1.3980653721828944	—	9.999999999999995e-08	9.999999999999995e-07
linear_3_4 [row=2, col=4]	0.16341156148551467	0.163411561485514	—	9.999999999999995e-08	9.999999999999995e-07
linear_3_5 [row=2, col=5]	-0.64224330215342917	-0.64224330215342944	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
linear_3_6 [row=2, col=6]	0.10907741532161175	0.10907741532161108	—	9.999999999999995e-08	9.999999999999995e-07
linear_4_1 [row=3, col=1]	0.85744648510364641	0.85744648510364641	—	9.999999999999995e-08	9.999999999999995e-07
linear_4_2 [row=3, col=2]	0.10445316204259804	0.10445316204259798	—	9.999999999999995e-08	9.999999999999995e-07
linear_4_3 [row=3, col=3]	8.2089088385276749	8.2089088385276785	—	9.999999999999995e-08	9.999999999999995e-07
linear_4_4 [row=3, col=4]	1.4798310122941863e-14	1.4798310122941544e-14	—	9.999999999999995e-08	9.999999999999995e-07
linear_4_5 [row=3, col=5]	0.65166225952780332	0.65166225952780343	—	9.999999999999995e-08	9.999999999999995e-07
linear_4_6 [row=3, col=6]	1.0632307106794896	1.0632307106794894	—	9.999999999999995e-08	9.999999999999995e-07
linear_5_1 [row=4, col=1]	-0.014135462406043048	-0.014135462406042795	—	9.999999999999995e-08	9.999999999999995e-07
linear_5_2 [row=4, col=2]	0.10037577174120703	0.10037577174120707	—	9.999999999999995e-08	9.999999999999995e-07
linear_5_3 [row=4, col=3]	-0.14082544184554499	-0.14082544184554241	—	9.999999999999995e-08	9.999999999999995e-07
linear_5_4 [row=4, col=4]	0.88812848051618443	0.88812848051618642	—	9.999999999999995e-08	9.999999999999995e-07
linear_5_5 [row=4, col=5]	-0.21188678032132136	-0.21188678032132113	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
linear_5_6 [row=4, col=6]	0.18361585550923526	0.18361585550923554	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
  "y": "y",
  "predictors": [
    "x",
    "z"
  ],
  "factors": [
    "g",
    "f"
  ],
  "draws": 200,
  "seed": 17,
  "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/linear_models_table_0.csv SHA-256: 8f81ebdafe09de41881545514c7396fd3811c89d15c16905f06533cced710d29

data/advanced/linear_models_table_1.csv SHA-256: fd064dd6f74c364b6cecaedf93a27cdc01427055ef17a322ccd5591847862e74

data/advanced/linear_models_table_2.csv SHA-256: 0aa1c94d7f0582821c34469e19802d091e0b3e4a00021a4cb44ae26a4e9af31c

data/advanced/linear_models_table_3.csv SHA-256: bbf18c4a2dd6103c6b2a71033c1af2858afe4a9f6838653d4164770d247d01e5

data/advanced/linear_models_table_4.csv SHA-256: 34c1b8ec3c7ab6a86d555d0d0f9a2d69f2a12d897c2f5c8ec2191ec53e424792

data/advanced/linear_models_table_5.csv SHA-256: b4922ed091be2c4302a3eefabd131aae01d141255e37a25a4cfc7aef1fdde581

data/advanced/linear_models_table_6.csv SHA-256: d971f52ade8a2052c1fea1a7822b6c71950393c5f9ad844543af11348f79dfd3

data/advanced/linear_models_table_7.csv SHA-256: f89cef2deec11936f850d448b5504b60193e821b4d894fec4525094a3083cb99

cases/advanced-linear_models/settings.json SHA-256: 3fcc7013433a8dc9eaf999b56a55411e66ec825d9aea89fbefd29e2a4762be5e

cases/advanced-linear_models/results.json SHA-256: 904cf8f3056a4c0f03f17462c38cffe403bcb44f362cfc54701eda4191ad6509

72. Moderasyon — X × W

Senaryo: moderation · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_1_1 [row=0, col=1]	0.04836514706301126	0.048365147063010885	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_2 [row=0, col=2]	0.087640923543270119	0.087640923543270133	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_3 [row=0, col=3]	0.581569373220220006	0.5815693732202234	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_4 [row=0, col=4]	-0.12429333138484291	-0.12429333138484323	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_1_5 [row=0, col=5]	0.221023625510865543	0.221023625510865502	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_1 [row=1, col=1]	0.849225317789633384	0.849225317789633373	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_2 [row=1, col=2]	0.096530541500162202	0.096530541500161965	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_3 [row=1, col=3]	3.005840944360655757e-16	3.005840944360604949e-16	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_4 [row=1, col=4]	0.659053697668165546	0.659053697668165557	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_2_5 [row=1, col=5]	1.039396937911102121	1.039396937911101919	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_1 [row=2, col=1]	0.497932057887343318	0.497932057887342229	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_2 [row=2, col=2]	0.092131859683870138	0.092131859683869999	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_3 [row=2, col=3]	1.586863132608519797e-07	1.586863132608529797e-07	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_4 [row=2, col=4]	0.316426135009494451	0.316426135009494401	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_3_5 [row=2, col=5]	0.679437980765191 8	0.679437980765190 57	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_1 [row=3, col=1]	0.333875826712326 85	0.333875826712326 57	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_2 [row=3, col=2]	0.106046389848570 8	0.106046389848570 8	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficient_4_3 [row=3, col=3]	0.0018533515427096145	0.001853351542709631	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_4 [row=3, col=4]	0.12495734918051174	0.12495734918051157	—	9.999999999999995e-08	9.999999999999995e-07
coefficient_4_5 [row=3, col=5]	0.54279430424414199	0.54279430424414155	—	9.999999999999995e-08	9.999999999999995e-07
slope_1_1 [row=0, col=1]	0.52959526250824362	0.52959526250824374	—	9.999999999999995e-08	9.999999999999995e-07
slope_1_2 [row=0, col=2]	0.00045987472517167963	0.00045987472517167708	—	9.999999999999995e-08	9.999999999999995e-07
slope_1_3 [row=0, col=3]	0.23594382497579602	0.23594382497579641	—	9.999999999999995e-08	9.999999999999995e-07
slope_1_4 [row=0, col=4]	0.82324670004069123	0.82324670004069112	—	9.999999999999995e-08	9.999999999999995e-07
slope_2_1 [row=1, col=1]	0.84922531778963384	0.84922531778963373	—	9.999999999999995e-08	9.999999999999995e-07
slope_2_2 [row=1, col=2]	3.0058409443606557e-16	3.0058409443606049e-16	—	9.999999999999995e-08	9.999999999999995e-07
slope_2_3 [row=1, col=3]	0.65905369766816546	0.65905369766816557	—	9.999999999999995e-08	9.999999999999995e-07
slope_2_4 [row=1, col=4]	1.0393969379111021	1.0393969379111019	—	9.999999999999995e-08	9.999999999999995e-07
slope_3_1 [row=2, col=1]	1.16885537307102241	1.16885537307102236	—	9.999999999999995e-08	9.999999999999995e-07
slope_3_2 [row=2, col=2]	1.0306699006441837e-16	1.0306699006441618e-16	—	9.999999999999995e-08	9.999999999999995e-07
slope_3_3 [row=2, col=3]	0.91175068658097458	0.91175068658097447	—	9.999999999999995e-08	9.999999999999995e-07
slope_3_4 [row=2, col=4]	1.4259600595610735	1.4259600595610729	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                    "x": "x",
                    "y": "y",
            "moderator": "w",
                "draws": 200,
                 "seed": 17,
         "include_plot": false
}
```

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256:
b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/moderation_table_0.csv SHA-256:
d85e9a09b3a707b8f1b5d554017a9961e481ff18fe805579c10753073d28a2af

data/advanced/moderation_table_1.csv SHA-256:
c5266c9bfc50a7125c7334524fb7cc0ae4cb4bc80bc550cb108980c76525d678

cases/advanced-moderation/settings.json SHA-256:
82b5769a2c508b4901d9cb7347c0dc5c156f0dce1a492c805f2c5a3bad443895

cases/advanced-moderation/results.json SHA-256:
80cfbc9c3ce0cf63a8e955ef7b9bdb6c29f739d1c19a8232e4349fe065a49c0c

73. Koşullu aracılık — ilk yol moderasyonu

Senaryo: conditional_indirect · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
conditional_1_1 [row=0, col=1]	0.12503843372405546	0.12503843372405526	—	9.999999999999995e-08	9.999999999999995e-07
conditional_1_2 [row=0, col=2]	-0.097778679613588021	-0.097778679613587244	—	9.999999999999995e-08	9.999999999999995e-07
conditional_1_3 [row=0, col=3]	0.35041612302115543	0.35041612302115505	—	9.999999999999995e-08	9.999999999999995e-07
conditional_2_1 [row=1, col=1]	0.55954576272742673	0.55954576272742673	—	9.999999999999995e-08	9.999999999999995e-07
conditional_2_2 [row=1, col=2]	0.4145451587227435	0.4145451587227372	—	9.999999999999995e-08	9.999999999999995e-07
conditional_2_3 [row=1, col=3]	0.73054228841144397	0.73054228841144375	—	9.999999999999995e-08	9.999999999999995e-07
conditional_3_1 [row=2, col=1]	0.99405309173079792	0.99405309173079814	—	9.999999999999995e-08	9.999999999999995e-07
conditional_3_2 [row=2, col=2]	0.80300653853174286	0.80300653853174264	—	9.999999999999995e-08	9.999999999999995e-07
conditional_3_3 [row=2, col=3]	1.1828593307306747	1.1828593307306727	—	9.999999999999995e-08	9.999999999999995e-07
index_1 [row=0, col=0]	0.45387313015933411	0.45387313015933428	—	9.999999999999995e-08	9.999999999999995e-07
index_2 [row=0, col=1]	0.32708525303892833	0.3270852530389281	—	9.999999999999995e-08	9.999999999999995e-07
index_3 [row=0, col=2]	0.63293084562030966	0.63293084562031077	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                    "x": "x",
                    "y": "y",
            "moderator": "w",
             "mediator": "m",
                "draws": 200,
                 "seed": 17,
         "include_plot": false
}
```


Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/conditional_indirect_table_0.csv SHA-256: b724d2bfeb57a859ef451817c4a4fb124f2ca136fd5944868912e5a91713839f
>
> data/advanced/conditional_indirect_table_1.csv SHA-256: 033f55a8449b151da954edde0047211fb89675602415399dc7ace506e62ad61f
>
> cases/advanced-conditional_indirect/settings.json SHA-256: 95f3cbd7c5a254463aa9255ea14f261a31d4f387b9f2d5bc65a9b42e0a29cfd0
>
> cases/advanced-conditional_indirect/results.json SHA-256: fca616e6d3b505e93f78304af7e40eca47e180b9b79993871144b5af4e96456a

74. Aracılı moderasyon — etkileşim dolaylı etkisi

Senaryo: mediated_moderation · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
conditional_1_1 [row=0, col=1]	0.13099621880942178	0.13099621880942161	—	9.999999999999995e-08	9.999999999999995e-07
conditional_1_2 [row=0, col=2]	-0.099472656811690013	-0.099472656811691582	—	9.999999999999995e-08	9.999999999999995e-07
conditional_1_3 [row=0, col=3]	0.35952008129303054	0.3595200812930302	—	9.999999999999995e-08	9.999999999999995e-07
conditional_2_1 [row=1, col=1]	0.58620679246420637	0.58620679246420648	—	9.999999999999995e-08	9.999999999999995e-07
conditional_2_2 [row=1, col=2]	0.44374672129882642	0.44374672129882636	—	9.999999999999995e-08	9.999999999999995e-07
conditional_2_3 [row=1, col=3]	0.7543771482461108	0.7543771482461057	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
conditional_3_1 [row=2, col=1]	1.0414173661189909	1.0414173661189912	—	9.999999999999995e-08	9.999999999999995e-07
conditional_3_2 [row=2, col=2]	0.8457286923539167	0.8457286923539067	—	9.999999999999995e-08	9.999999999999995e-07
conditional_3_3 [row=2, col=3]	1.2423821036100489	1.2423821036100455	—	9.999999999999995e-08	9.999999999999995e-07
index_1 [row=0, col=0]	0.4754991093480960 3	0.4754991093480962 5	—	9.999999999999995e-08	9.999999999999995e-07
index_2 [row=0, col=1]	0.3374311167802804 8	0.3374311167802802	—	9.999999999999995e-08	9.999999999999995e-07
index_3 [row=0, col=2]	0.6811780322953652 2	0.6811780322953655 5	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> independent R computation

Analiz ayarları


```
{
                    "x": "x",
                    "y": "y",
            "moderator": "w",
            "mediator": "m",
            "draws": 200,
            "seed": 17,
        "include_plot": false
}
```


Veri ve sonuç dosyaları

> data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e
>
> data/advanced/mediated_moderation_table_0.csv SHA-256: b27dd767a7add5f35740e4806e32bf295739774ac5eece5743a8795ed0156b29
>
> data/advanced/mediated_moderation_table_1.csv SHA-256: 697ed3cec42e3dc336c2c774b8fc760ebdd3f61880ab51140eb22e978602f3d8
>
> cases/advanced-mediated_moderation/settings.json SHA-256: 95f3cbd7c5a254463aa9255ea14f261a31d4f387b9f2d5bc65a9b42e0a29cfd0
>
> cases/advanced-mediated_moderation/results.json SHA-256: 6afdfdb8ceae70ab20103b8bdb125f729a8e39783ea6b121652018885e68dedc

75. GLMM — Binomial, Bayesçi rastgele kesişim

Senaryo: glmm_binomial · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
posterior_mean_1 [row=0, col=1]	-0.04690844026487543	-0.046908449641657503	—	0.0002000000000000001	9.9999999999999995e-07
posterior_SD_1 [row=0, col=2]	0.13403839261687278	0.13403833073182109	—	0.0002000000000000001	9.9999999999999995e-07
posterior_mean_2 [row=1, col=1]	-0.059027029335484656	-0.059026976976695865	—	0.0002000000000000001	9.9999999999999995e-07
posterior_SD_2 [row=1, col=2]	0.14671415000019777	0.14671414403993718	—	0.0002000000000000001	9.9999999999999995e-07
posterior_mean_3 [row=2, col=1]	-0.065820800442097788	-0.06582083317328373	—	0.0002000000000000001	9.9999999999999995e-07
posterior_SD_3 [row=2, col=2]	0.14144683857191698	0.14144684385969486	—	0.0002000000000000001	9.9999999999999995e-07
log_SD_mean [row=0, col=0]	-0.490642024830442	-0.49064210971650607	—	0.0002000000000000001	9.9999999999999995e-07
log_SD_posterior_SD [row=0, col=1]	0.091258653215531171	0.091258645250975254	—	0.0002000000000000001	9.9999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
    "y": "binary",
    "predictors": [
        "x",
        "z"
    ],
    "subject": "id",
    "draws": 200,
    "seed": 17,
    "include_plot": false
}
```


Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256: b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/glmm_binomial_table_0.csv SHA-256: a742e236c05e8fb32c8f20ca6d1ddc0721b0039768d008dfe3e1cfe2099c37f8

data/advanced/glmm_binomial_table_1.csv SHA-256: 62f610e8e7c8773c01597cba86eb4c50101b1f615bdbf60f7723c8880f34cdd2

cases/advanced-glmm_binomial/settings.json SHA-256: 5e0ef9070c6cf1035e956f14881ac31135895e6beb5a39178ef69940ea491339

cases/advanced-glmm_binomial/results.json SHA-256: f58bdcaec1dcb6642bf416ceb0f211169369ce0b021f2d9e4b7c7ab7eaa4386f

76. GLMM — Poisson, Bayesçi rastgele kesişim

Senaryo: glmm_poisson · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
posterior_mean_1 [row=0, col=1]	0.57028742238783614	0.57028749128862644	—	0.00020000000000000001	9.999999999999995e-07
posterior_SD_1 [row=0, col=2]	0.046016184486726827	0.046016120188503332	—	0.00020000000000000001	9.999999999999995e-07
posterior_mean_2 [row=1, col=1]	0.006047970849647620 2	0.006048149102217933	—	0.00020000000000000001	9.999999999999995e-07
posterior_SD_2 [row=1, col=2]	0.049206412094746438	0.049206489507740869	—	0.00020000000000000001	9.999999999999995e-07
posterior_mean_3 [row=2, col=1]	0.062076531525669013	0.062076267270591901	—	0.00020000000000000001	9.999999999999995e-07
posterior_SD_3 [row=2, col=2]	0.047734888729951838	0.047734947408674 4	—	0.00020000000000000001	9.999999999999995e-07
log_SD_mean [row=0, col=0]	-0.849571173340608 83	-0.849571458590248896	—	0.00020000000000000001	9.999999999999995e-07
log_SD_posterior_SD [row=0, col=1]	0.092369750858726229	0.092369250119295046	—	0.00020000000000000001	9.999999999999995e-07

Karşılaştırma ayrıntısı

independent R computation

Analiz ayarları


```
{
                    "y":  "count",
           "predictors":  [
                           "x",
                           "z"
                          ],
              "subject":  "id",
               "draws":  200,
                "seed":  17,
        "include_plot":  false
}
```

Veri ve sonuç dosyaları

data/advanced/advanced.csv SHA-256:
b65c1a24e08f7c8c74015da56ab3c171c3f429d3fab91eb345bdfb1d1455332e

data/advanced/glmm_poisson_table_0.csv SHA-256:
5055bd934cb00b53941bb4eb782bc650a601155483a76cf0fff264e217639968

data/advanced/glmm_poisson_table_1.csv SHA-256:
6e5b115db6cee778006097a559259fb946ddb9e041a747230d86c648a2d1e75c

cases/advanced-glmm_poisson/settings.json SHA-256:
4bf24d63f631d435a0172eebaac17a4d129af87331a9dea0c3c427e91bf90ea8

cases/advanced-glmm_poisson/results.json SHA-256:
2e027ae52acad9755b470391d03bad43a816a06609177b1cd2ceea73e4ef969a

77. Ölçek geliştirme

Senaryo: scale_fixture · CiterLab + R · Girdi satırı: 400

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
fit/chi2	27.141270288866082	27.141270271730633	—	0.0030000000000000001	9.999999999999995e-07
fit/DoF	19	19	—	0.0030000000000000001	9.999999999999995e-07
fit/CFI	0.995875263018290088	0.995875263026972 49	—	0.0030000000000000001	9.999999999999995e-07
fit/TLI	0.993921440237 4813	0.993921440250275 18	—	0.0030000000000000001	9.999999999999995e-07
fit/RMSEA	0.032729493959 58942	0.032729493925145493	—	0.0030000000000000001	9.999999999999995e-07
fit/chi2 p-value	0.101405308015 97473	0.101405308404752 93	—	0.0030000000000000001	9.999999999999995e-07
kmo	0.869377022331 75329	0.869377022331753 29	—	9.9999999999999995e-08	9.999999999999995e-07
bartlett	1979.247253256894 5	1979.2472532568945	—	9.9999999999999995e-08	9.999999999999995e-07
factors	2	2	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/0	4.191468598351109 5	4.191468598351106 9	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/1	1.956076448304433 5	1.956076448304429 9	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/2	0.368220742163790 97	0.368220742163791 64	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/3	0.340851952615497 39	0.340851952615497 83	—	9.9999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
eigen/4	0.31476798218576996	0.3147679821857704	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/5	0.31208726263205933	0.3120872626320988	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/6	0.27666258097117569	0.2766625809711585	—	9.9999999999999995e-08	9.999999999999995e-07
eigen/7	0.23986443277615738	0.2398644327761674	—	9.9999999999999995e-08	9.999999999999995e-07
loading/I1	0.81474727059758911	0.8147482815164639	—	0.001	9.999999999999995e-07
loading/I2	0.7983985341635258	0.7983995824557319	—	0.001	9.999999999999995e-07
loading/I3	0.84351670546490953	0.8435166936568314	—	0.001	9.999999999999995e-07
loading/I4	0.85977111445533272	0.8597714018170269	—	0.001	9.999999999999995e-07
loading/I5	0.84541459861261115	0.8454149435519722	—	0.001	9.999999999999995e-07
loading/I6	0.82441552184667266	0.8244165950845741	—	0.001	9.999999999999995e-07
loading/I7	0.82137466937974568	0.8213752547730964	—	0.001	9.999999999999995e-07
loading/I8	0.83474148451196595	0.8347416822105688	—	0.001	9.999999999999995e-07
alpha/total	0.87000546808266233	0.8700054680826244	—	9.9999999999999995e-08	9.999999999999995e-07
alpha/ Dimension A	0.89764795701659317	0.8976479570165317	—	9.9999999999999995e-08	9.999999999999995e-07
alpha/ Dimension B	0.89933601308568178	0.8993360130856178	—	9.9999999999999995e-08	9.999999999999995e-07
efa_cov/0/0	0.67213604413142736	0.6721360185763412	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/1/0	0.65116210516680006	0.6511621070107981	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/1/1	0.63696763493057714	0.6369676619896476	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/2/0	0.69099313675108331	0.6909931440730766	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/2/1	0.67308660693863065	0.6730866400853048	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/2/2	0.71256135279575905	0.7125613934918212	—	0.00029999999999999997	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
efa_cov/3/0	0.70167447378879155	0.70167449747172983	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/3/1	0.68350117995513981	0.68350122984995665	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/3/2	0.72358207939301999	0.72358213771558166	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/3/3	0.73477327284456706	0.73477334933045546	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/4/0	0.27210546516855616	0.272105459760629	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/4/1	0.32425399579678532	0.32425399321185988	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/4/2	0.31593370664986992	0.31593369997612636	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/4/3	0.32091673635920814	0.32091674105532786	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/4/4	0.71051232163014411	0.7105122096546912	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/5/0	0.18912863518449055	0.18912864213993252	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/5/1	0.24606793973372348	0.24606794795453552	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/5/2	0.23194293568549387	0.23194293847708736	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/5/3	0.23563124687478135	0.23563125935839324	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/5/4	0.69871580532812216	0.69871571751829042	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/5/5	0.69795425818424039	0.69795419345974619	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/6/0	0.24725198352638339	0.24725197817795613	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/6/1	0.29924504148013215	0.29924504623266224	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/6/2	0.28982724508252344	0.2898272423115337	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/6/3	0.29440519718291536	0.29440520517950369	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/6/4	0.69123324267464692	0.69123321283472705	—	0.0002999999999999997	9.999999999999995e-07
efa_cov/6/5	0.68217031319713017	0.68217030979678595	—	0.0002999999999999997	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
efa_cov/6/6	0.67301468698848665	0.67301473681401669	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/0	0.26692039199420059	0.26692038253838346	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/1	0.31862681087121797	0.31862680249955921	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/2	0.31024270455859337	0.31024269257176229	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/3	0.31513677369020604	0.31513677281416352	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/4	0.70243426632891559	0.70243413655572207	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/5	0.69106079712720159	0.6910606911257432	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/6	0.68343871224157671	0.6834386642054696	—	0.00029999999999999997	9.999999999999995e-07
efa_cov/7/7	0.69445575488282718	0.6944556077080215	—	0.00029999999999999997	9.999999999999995e-07

Karşılaştırma ayrıntısı

ML EFA reproduced covariance rotation and sign invariant

recovery of known synthetic fixture factor count; not R replication of random cutoffs

same ML model independent optimizer tolerance

standardized ML loading independent optimizer

unrounded application result

Analiz ayarları


```
{
  "version": 1,
  "items": [
    "I1",
    "I2",
    "I3",
    "I4",
    "I5",
    "I6",
    "I7",
    "I8"
  ],
  "reversed": [
    "I2"
  ],
```

```
    "lower": -9.0,
    "upper": 15.0,
    "sample": "same",
    "participant_id": "ID",
    "secondary_id": "",
    "independent": true,
    "split": 0.5,
    "seed": 20261014,
    "secondary_sha256": "",
    "secondary_columns": [],
    "mapping": {},
    "missing": "listwise",
    "correlation": "pearson",
    "extraction": "minres",
    "rotation": "oblimin",
    "factors": 2,
    "parallel_draws": 100,
    "loading": 0.4,
    "cross_gap": 0.2,
    "stage": "full",
    "factor_rule": "fixed",
    "model": {
      "Dimension A": [
        "I1",
        "I2",
        "I3",
        "I4"
      ],
      "Dimension B": [
        "I5",
        "I6",
        "I7",
        "I8"
      ]
    },
    "approved": true,
    "completion": 1.0,
    "operation": "mean",
    "alpha": 0.05
}
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Veri ve sonuç dosyaları

> data/workflows/scale_fixture.csv SHA-256: 3c4b482ff82951d4634f9a01f665f6b493f0482964787996597b4d7ed3f633b8
>
> data/workflows/scale_fixture_eigen.csv SHA-256: d57e539c3e46b0cef07548007a1ebd5ec800653ec8f3a584a12e1a15638ddbd5

cases/workflow-scale_fixture/settings.json SHA-256: 5c13f83e1b582beda0b96707ff67804ff8177dee295d1421f3405ddacf490c41

cases/workflow-scale_fixture/results.json SHA-256: 20fa060b3420544b603f8dcb8b7a127762baeafde3247974706d2bbe91929b54

78. Ölçek geliştirme

Senaryo: scale_450 · CiterLab + R · Girdi satırı: 450

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
fit/chi2	408.25060011860347	408.25060011725259	—	0.0030000000000000001	9.999999999999995e-07
fit/DoF	402	402	—	0.0030000000000000001	9.999999999999995e-07
fit/CFI	0.9989966614590657 4	0.9989966614592825 6	—	0.0030000000000000001	9.999999999999995e-07
fit/TLI	0.9989142978474965 2	0.9989142978477311	—	0.0030000000000000001	9.999999999999995e-07
fit/RMSEA	0.0058781623193986188	0.0058781623187634203	—	0.0030000000000000001	9.999999999999995e-07
fit/chi2 p-value	0.4040827171236264	0.4040827171418841 5	—	0.0030000000000000001	9.999999999999995e-07
kmo	0.9498695948511339 8	0.9498695948511337 6	—	9.999999999999995e-08	9.999999999999995e-07
bartlett	6489.5420712244359	6489.5420712244313	—	9.999999999999995e-08	9.999999999999995e-07
factors	3	3	—	9.999999999999995e-08	9.999999999999995e-07
eigen/0	9.293696396999173 7	9.293696396999173 7	—	9.999999999999995e-08	9.999999999999995e-07
eigen/1	3.790240563636681 6	3.790240563636684 3	—	9.999999999999995e-08	9.999999999999995e-07
eigen/2	3.150506604475404 9	3.150506604475402 6	—	9.999999999999995e-08	9.999999999999995e-07
eigen/3	0.8146574369871342 2	0.8146574369871335 5	—	9.999999999999995e-08	9.999999999999995e-07
eigen/4	0.7793176499716453 2	0.7793176499716449 9	—	9.999999999999995e-08	9.999999999999995e-07
eigen/5	0.7567557717965770 5	0.7567557717965778 3	—	9.999999999999995e-08	9.999999999999995e-07
eigen/6	0.6876136823311694 8	0.6876136823311679 3	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
eigen/7	0.667687885192630 56	0.667687885192630 56	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/8	0.663758278348132 28	0.663758278348131 73	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/9	0.653863604677088 48	0.653863604677087 37	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/10	0.620122103242581 88	0.620122103242582 77	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/11	0.587544915556934 33	0.587544915556933 89	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/12	0.566365525349539 99	0.566365525349539 21	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/13	0.556756578795919 22	0.556756578795918 33	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/14	0.548086835732289 45	0.548086835732289 11	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/15	0.517226850079944 51	0.517226850079944 62	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/16	0.516562264850660 92	0.516562264850660 04	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/17	0.474629602686367 34	0.474629602686366 78	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/18	0.456432593542100 42	0.456432593542100 25	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/19	0.451631784790557 66	0.451631784790557 66	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/20	0.421069318813134 75	0.421069318813134 47	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/21	0.418509333335665 53	0.418509333335665 53	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/22	0.389085166479494 15	0.389085166479493 76	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/23	0.359935815735388 58	0.359935815735388 02	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/24	0.353547703427105 73	0.353547703427105 06	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/25	0.344432267715469 09	0.344432267715468 98	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/26	0.309106895920196 8	0.309106895920196 36	—	9.999999999999999 5e-08	9.999999999999999 5e-07
eigen/27	0.294899475838624 14	0.294899475838624 41	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
eigen/28	0.28850819565412861	0.28850819565412766	—	9.999999999999995e-08	9.999999999999995e-07
eigen/29	0.26744889803827043	0.26744889803826982	—	9.999999999999995e-08	9.999999999999995e-07
loading/M01	0.75242476638510047	0.75242515095202012	—	0.001	9.999999999999995e-07
loading/M02	0.76814545257764077	0.76814598354202923	—	0.001	9.999999999999995e-07
loading/M03	0.61795233978798447	0.61795239507088029	—	0.001	9.999999999999995e-07
loading/M04	0.82467415411744827	0.82467419763264171	—	0.001	9.999999999999995e-07
loading/M05	0.73616319818897769	0.73616346818987866	—	0.001	9.999999999999995e-07
loading/M06	0.71597522605770103	0.71597544911929201	—	0.001	9.999999999999995e-07
loading/M07	0.61945645262126126	0.6194563795870186	—	0.001	9.999999999999995e-07
loading/M08	0.74822438187610174	0.74822430063612821	—	0.001	9.999999999999995e-07
loading/M09	0.67666591401048082	0.67666646856872559	—	0.001	9.999999999999995e-07
loading/M10	0.78268206231154513	0.78268247234123511	—	0.001	9.999999999999995e-07
loading/M21	0.67957077147542466	0.67957103665729246	—	0.001	9.999999999999995e-07
loading/M22	0.621297344643295	0.62129740374918219	—	0.001	9.999999999999995e-07
loading/M23	0.63058093137187377	0.63058176851650094	—	0.001	9.999999999999995e-07
loading/M24	0.7432202549961241	0.74322011215466333	—	0.001	9.999999999999995e-07
loading/M25	0.65667017501096692	0.65667051212714977	—	0.001	9.999999999999995e-07
loading/M26	0.59643494525223295	0.59643478123616589	—	0.001	9.999999999999995e-07
loading/M27	0.75606978413144932	0.75606989704577698	—	0.001	9.999999999999995e-07
loading/M28	0.64591855059886172	0.64591879433502508	—	0.001	9.999999999999995e-07
loading/M29	0.80593661429338887	0.80593666086856786	—	0.001	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
loading/M30	0.79302855786307513	0.79302875881221857	—	0.001	9.999999999999995e-07
loading/M11	0.83349522330182191	0.83349542640863283	—	0.001	9.999999999999995e-07
loading/M12	0.65447593609966459	0.65447584385030677	—	0.001	9.999999999999995e-07
loading/M13	0.68972354223714161	0.68972366898120296	—	0.001	9.999999999999995e-07
loading/M14	0.60814096312301502	0.60814112249475427	—	0.001	9.999999999999995e-07
loading/M15	0.60935445818564116	0.60935483759345355	—	0.001	9.999999999999995e-07
loading/M16	0.61568507380505466	0.61568547131912277	—	0.001	9.999999999999995e-07
loading/M17	0.64017755855843561	0.64017758273089576	—	0.001	9.999999999999995e-07
loading/M18	0.62220927680009708	0.62220943074750568	—	0.001	9.999999999999995e-07
loading/M19	0.66674411196501859	0.66674413987386139	—	0.001	9.999999999999995e-07
loading/M20	0.77527371871986428	0.7752738949588126	—	0.001	9.999999999999995e-07
alpha/total	0.92208442125239598	0.92208442125239598	—	9.999999999999995e-08	9.999999999999995e-07
alpha/F1	0.91707280493256882	0.91707280493256882	—	9.999999999999995e-08	9.999999999999995e-07
alpha/F2	0.90219308851219737	0.90219308851219726	—	9.999999999999995e-08	9.999999999999995e-07
alpha/F3	0.89031194411675663	0.89031194411675663	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

> recovery of known synthetic fixture factor count; not R replication of random cutoffs
>
> same ML model independent optimizer tolerance
>
> standardized ML loading independent optimizer
>
> unrounded application result

Analiz ayarları

{
"version": 1,
"items": [
"M01",

```
        "M02",
        "M03",
        "M04",
        "M05",
        "M06",
        "M07",
        "M08",
        "M09",
        "M10",
        "M11",
        "M12",
        "M13",
        "M14",
        "M15",
        "M16",
        "M17",
        "M18",
        "M19",
        "M20",
        "M21",
        "M22",
        "M23",
        "M24",
        "M25",
        "M26",
        "M27",
        "M28",
        "M29",
        "M30"
      ],
      "reversed": [
        "M04",
        "M09",
        "M14",
        "M19",
        "M24",
        "M29"
      ],
      "lower": 1.0,
      "upper": 5.0,
      "sample": "same",
      "participant_id": "Katilimci_ID",
      "secondary_id": "",
      "independent": true,
      "split": 0.5,
      "seed": 20261014,
```

```
    "secondary_sha256": "",
    "secondary_columns": [],
    "mapping": {},
    "missing": "listwise",
    "correlation": "pearson",
    "extraction": "minres",
    "rotation": "oblimin",
    "factors": 3,
    "parallel_draws": 500,
    "loading": 0.4,
    "cross_gap": 0.2,
    "stage": "auto",
    "factor_rule": "parallel",
    "model": {
      "F1": [
        "M01",
        "M02",
        "M03",
        "M04",
        "M05",
        "M06",
        "M07",
        "M08",
        "M09",
        "M10"
      ],
      "F2": [
        "M21",
        "M22",
        "M23",
        "M24",
        "M25",
        "M26",
        "M27",
        "M28",
        "M29",
        "M30"
      ],
      "F3": [
        "M11",
        "M12",
        "M13",
        "M14",
        "M15",
        "M16",
        "M17",
```

```
                "M18",
                "M19",
                "M20"
              ]
            },
    "approved": false,
  "completion": 1.0,
   "operation": "mean",
       "alpha": 0.05
}
```


Veri ve sonuç dosyaları

data/workflows/scale_450.csv SHA-256: ead236915cdcf7a54abd9cc4e0fd357133c67a4453126ed1d06a82e777088da1

data/workflows/scale_450_eigen.csv SHA-256: d979245eceeb992f95e12e2d2525ca93bf078a12be0fe04fba53c77314ea731e

cases/workflow-scale_450/settings.json SHA-256: 6a1ab981316a27aa1b84dcc8a0210b9331397d5457a5f4c2cb4be3e92c46ca99

cases/workflow-scale_450/results.json SHA-256: d69f58202e44796aee5330e87f09f4bbf8b9dcc7a4716a1e09434ff5769fdc8f

79. SEM stüdyosu DFA

Senaryo: sem_cfa · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
fit/chi2	19.574485005492477	19.574485001573692	—	0.00300000000000001	9.9999999999999995e-07
fit/DoF	24	24	—	0.00300000000000001	9.9999999999999995e-07
fit/CFI	1	1	—	0.00300000000000001	9.9999999999999995e-07
fit/TLI	1.0032306049403685	1.0032306049432294	—	0.00300000000000001	9.9999999999999995e-07
fit/RMSEA	0	0	—	0.00300000000000001	9.9999999999999995e-07
fit/chi2 p-value	0.72069885362462749	0.72069885384224042	—	0.00300000000000001	9.9999999999999995e-07
coef/x0/X	1	1	—	0.00300000000000001	9.9999999999999995e-07
coef/x1/X	0.94308387758466994	0.94308288428968157	—	0.00300000000000001	9.9999999999999995e-07
coef/x2/X	0.99663630241034673	0.99663541848080373	—	0.00300000000000001	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coef/m0/M	1	1	—	0.0030000000000000001	9.9999999999999995e-07
coef/m1/M	1.0781702859542268	1.0781703157619056	—	0.0030000000000000001	9.9999999999999995e-07
coef/m2/M	1.0351252064845442	1.0351252213809654	—	0.0030000000000000001	9.9999999999999995e-07
coef/y0/Y	1	1	—	0.0030000000000000001	9.9999999999999995e-07
coef/y1/Y	1.0360480706773276	1.036047415825228	—	0.0030000000000000001	9.9999999999999995e-07
coef/y2/Y	1.0337148291885838	1.0337143658645394	—	0.0030000000000000001	9.9999999999999995e-07

Karşılaştırma ayrıntısı

same ML model independent optimizer tolerance

unstandardized same ML model independent optimizer

Analiz ayarları


```
{
                "model_type": "sem",
                "constructs": [
                    {
                        "name": "X",
                        "indicators": [
                            "x0",
                            "x1",
                            "x2"
                        ],
                        "x": 0.0,
                        "y": 0.0,
                        "indicator_offsets": {},
                        "r2": null,
                        "loadings": {},
                        "alpha": null,
                        "cr": null,
                        "ave": null,
                        "kind": "latent",
                        "column": ""
                    },
                    {
                        "name": "M",
                        "indicators": [
                            "m0",
```

```
            "m1",
            "m2"
          ],
          "x": 0.0,
          "y": 0.0,
          "indicator_offsets": {},
          "r2": null,
          "loadings": {},
          "alpha": null,
          "cr": null,
          "ave": null,
          "kind": "latent",
          "column": ""
        },
        {
          "name": "Y",
          "indicators": [
            "y0",
            "y1",
            "y2"
          ],
          "x": 0.0,
          "y": 0.0,
          "indicator_offsets": {},
          "r2": null,
          "loadings": {},
          "alpha": null,
          "cr": null,
          "ave": null,
          "kind": "latent",
          "column": ""
        }
      ],
      "paths": [
        {
          "source": "X",
          "target": "M",
          "kind": "covariance",
          "coefficient": null,
          "p_value": null
        },
        {
          "source": "M",
          "target": "Y",
          "kind": "covariance",
          "coefficient": null,
```

```
      "p_value": null
    },
    {
      "source": "X",
      "target": "Y",
      "kind": "covariance",
      "coefficient": null,
      "p_value": null
    }
  ],
  "settings": {
    "factors": 3,
    "extraction": "minres",
    "rotation": "varimax",
    "bootstrap_n": 100,
    "bootstrap_ci": 95,
    "mediation_sensitivity": true
  }
}
```


Veri ve sonuç dosyaları

data/workflows/sem_cfa.csv SHA-256: baaab528b04a1fec74dcaf8d0e538bab8bddd0b5736d07f087f11c0a11c8fb39

cases/workflow-sem_cfa/settings.json SHA-256: 1b6d926a518e73279cbb3cc978f933870cbde838682bbca1184e0d073bf920f8

cases/workflow-sem_cfa/results.json SHA-256: f2fa474f37ebf8fd953cfe796a233e98a039cf48aac5a1050db984fac15de6e5

80. Yapısal eşitlik

Senaryo: sem_sem · CiterLab + R · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
fit/chi2	19.574485003920188	19.574485001555786	—	0.00300000000000001	9.9999999999999995e-07
fit/DoF	24	24	—	0.00300000000000001	9.9999999999999995e-07
fit/CFI	1	1	—	0.00300000000000001	9.9999999999999995e-07
fit/TLI	1.0032306049415163	1.0032306049432425	—	0.00300000000000001	9.9999999999999995e-07
fit/RMSEA	0	0	—	0.00300000000000001	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
fit/chi2 p-value	0.7206988537119372	0.72069885384323462	—	0.0030000000000000001	9.9999999999999995e-07
coef/x0/X	1	1	—	0.0030000000000000001	9.9999999999999995e-07
coef/x1/X	0.94308245046050088	0.94308330291651343	—	0.0030000000000000001	9.9999999999999995e-07
coef/x2/X	0.99663620913735262	0.99663550730736938	—	0.0030000000000000001	9.9999999999999995e-07
coef/m0/M	1	1	—	0.0030000000000000001	9.9999999999999995e-07
coef/m1/M	1.0781702307291934	1.0781704957433735	—	0.0030000000000000001	9.9999999999999995e-07
coef/m2/M	1.0351248988009446	1.0351252999081209	—	0.0030000000000000001	9.9999999999999995e-07
coef/y0/Y	1	1	—	0.0030000000000000001	9.9999999999999995e-07
coef/y1/Y	1.0360472814642647	1.0360477653091369	—	0.0030000000000000001	9.9999999999999995e-07
coef/y2/Y	1.0337140769415216	1.0337147552739732	—	0.0030000000000000001	9.9999999999999995e-07
coef/M/X	0.57766842783112926	0.57766886338635248	—	0.0030000000000000001	9.9999999999999995e-07
coef/Y/M	0.74544640192766676	0.74544733971073884	—	0.0030000000000000001	9.9999999999999995e-07
coef/Y/X	0.20477797158798747	0.20477714009623468	—	0.0030000000000000001	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> same ML model independent optimizer tolerance
>
> unstandardized same ML model independent optimizer

Analiz ayarları


```
{
                                                "model_type":                                "sem",
                                                    "constructs":                                [
                                                                                                  {
                                                                                "name":                "X",
                                                                            "indicators":                [
                                                                                                        "x0",
                                                                                                        "x1",
                                                                                                        "x2"
                                                                                                          ],
                                                                                    "x":                0.0,
```

```
            "y": 0.0,
  "indicator_offsets": {},
           "r2": null,
      "loadings": {},
        "alpha": null,
           "cr": null,
          "ave": null,
         "kind": "latent",
       "column": ""
     },
     {
       "name": "M",
       "indicators": [
         "m0",
         "m1",
         "m2"
       ],
       "x": 0.0,
       "y": 0.0,
  "indicator_offsets": {},
           "r2": null,
      "loadings": {},
        "alpha": null,
           "cr": null,
          "ave": null,
         "kind": "latent",
       "column": ""
     },
     {
       "name": "Y",
       "indicators": [
         "y0",
         "y1",
         "y2"
       ],
       "x": 0.0,
       "y": 0.0,
  "indicator_offsets": {},
           "r2": null,
      "loadings": {},
        "alpha": null,
           "cr": null,
          "ave": null,
         "kind": "latent",
       "column": ""
     }
```

```
    ],
    "paths": [
      {
        "source": "X",
        "target": "M",
        "kind": "regression",
        "coefficient": null,
        "p_value": null
      },
      {
        "source": "M",
        "target": "Y",
        "kind": "regression",
        "coefficient": null,
        "p_value": null
      },
      {
        "source": "X",
        "target": "Y",
        "kind": "regression",
        "coefficient": null,
        "p_value": null
      }
    ],
    "settings": {
      "factors": 3,
      "extraction": "minres",
      "rotation": "varimax",
      "bootstrap_n": 100,
      "bootstrap_ci": 95,
      "mediation_sensitivity": true
    }
}
```


Veri ve sonuç dosyaları

> data/workflows/sem_sem.csv SHA-256: baaab528b04a1fec74dcaf8d0e538bab8bddd0b5736d07f087f11c0a11c8fb39
>
> cases/workflow-sem_sem/settings.json SHA-256: 3e6dc847296cd65ef5f83b7a69cb3c772ec239d742315d7b1d09cf1c4a638266
>
> cases/workflow-sem_sem/results.json SHA-256: 035d3e8d87a486605055018a8f469419c2c87d57e98ca2b75ec3b9933ce5b892

81. Test geliştirme ve madde analizi

Senaryo: items_binary · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/n	120	120	—	9.999999999999995e-08	9.999999999999995e-07
initial/k	20	20	—	9.999999999999995e-08	9.999999999999995e-07
initial/kr20	0.7635180736373 5236	0.7635180736373 5236	—	9.999999999999995e-08	9.999999999999995e-07
initial/kr21	0.7492735226545 5349	0.7492735226545 5338	—	9.999999999999995e-08	9.999999999999995e-07
initial/alpha	0.7635180736373 5236	0.7635180736373 5236	—	9.999999999999995e-08	9.999999999999995e-07
initial/mean	11.9	11.9	—	9.999999999999995e-08	9.999999999999995e-07
initial/sd	4.1065637151051 835	4.1065637151051 835	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/p	0.6833333333333 3335	0.6833333333333 3335	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/r_rest	0.2693552697716 2222	0.2693552697716 2211	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/ kr20_deleted	0.7578723010744 9899	0.7578723010744 9899	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/p	0.4916666666666 6664	0.4916666666666 6664	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/D	0.4375	0.4375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/r_rest	0.2934144951958 9791	0.2934144951958 9774	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/ kr20_deleted	0.7563988115467 8656	0.7563988115467 8668	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/p	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/r_rest	0.2281401211505 8677	0.2281401211505 8691	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/ kr20_deleted	0.7609241644221 6981	0.7609241644221 7004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/p	0.5083333333333 333	0.5083333333333 333	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M04/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/r_rest	0.26348732098500433	0.26348732098500427	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/kr20_deleted	0.75859494132094207	0.75859494132094241	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/p	0.5166666666666672	0.5166666666666672	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/r_rest	0.31713786365809143	0.31713786365809138	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/kr20_deleted	0.75464591955175531	0.75464591955175542	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/p	0.4749999999999998	0.4749999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/r_rest	0.37805738006589096	0.37805738006589101	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/kr20_deleted	0.75010421855105625	0.75010421855105636	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/p	0.6666666666666663	0.6666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/r_rest	0.45574487431542837	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/p	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/r_rest	0.25031503860100135	0.25031503860100124	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/kr20_deleted	0.75892310478766656	0.75892310478766656	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/p	0.5333333333333333	0.5333333333333333	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M09/r_rest	0.40454114044788231	0.40454114044788214	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/kr20_deleted	0.74811438468414774	0.74811438468414782	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/p	0.66666666666666663	0.66666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/r_rest	0.45574487431542826	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/p	0.61666666666666667	0.61666666666666667	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/r_rest	0.28853605699630230	0.28853605699630225	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/kr20_deleted	0.75666474096273151	0.75666474096273162	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/p	0.72499999999999998	0.72499999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/r_rest	0.36200724284235858	0.36200724284235858	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/kr20_deleted	0.75164966066362593	0.75164966066362604	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/r_rest	0.21693792325566694	0.21693792325566685	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/kr20_deleted	0.76196941288650755	0.76196941288650755	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/p	0.875	0.875	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/D	0.21875	0.21875	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/r_rest	0.24836764891383376	0.24836764891383378	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M14/kr20_deleted	0.75896406347990608	0.75896406347990608	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/p	0.43333333333333335	0.43333333333333335	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/r_rest	0.3807481479288462	0.3807481479288462	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/kr20_deleted	0.74992754427507269	0.74992754427507269	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/p	0.6416666666666672	0.6416666666666672	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/r_rest	0.26084801263699164	0.26084801263699159	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/kr20_deleted	0.75857405773803388	0.75857405773803399	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/r_rest	0.34477124568332307	0.34477124568332296	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/kr20_deleted	0.75259340833021106	0.75259340833021106	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/r_rest	0.41189759869322224	0.41189759869322251	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/kr20_deleted	0.74757445018453239	0.74757445018453325	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/p	0.5416666666666663	0.5416666666666663	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/D	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/r_rest	0.42869284715973333	0.42869284715973344	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/kr20_deleted	0.74629479609086347	0.74629479609086347	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M20/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/r_rest	0.22875523288262992	0.22875523288262997	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/kr20_deleted	0.76108456126377266	0.76108456126377277	—	9.999999999999995e-08	9.999999999999995e-07
final/n	120	120	—	9.999999999999995e-08	9.999999999999995e-07
final/k	20	20	—	9.999999999999995e-08	9.999999999999995e-07
final/kr20	0.76351807363735236	0.76351807363735236	—	9.999999999999995e-08	9.999999999999995e-07
final/kr21	0.74927352265455349	0.74927352265455338	—	9.999999999999995e-08	9.999999999999995e-07
final/alpha	0.76351807363735236	0.76351807363735236	—	9.999999999999995e-08	9.999999999999995e-07
final/mean	11.9	11.9	—	9.999999999999995e-08	9.999999999999995e-07
final/sd	4.1065637151051835	4.1065637151051835	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/p	0.68333333333333335	0.68333333333333335	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/r_rest	0.26935526977162222	0.26935526977162211	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/kr20_deleted	0.75787230107449899	0.75787230107449899	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/p	0.49166666666666664	0.49166666666666664	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/D	0.4375	0.4375	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/r_rest	0.29341449519589791	0.29341449519589774	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/kr20_deleted	0.75639881154678656	0.75639881154678668	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/p	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M03/r_rest	0.22814012115058677	0.22814012115058691	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/kr20_deleted	0.76092416442216981	0.76092416442217004	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/p	0.5083333333333333	0.5083333333333333	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/r_rest	0.26348732098500433	0.26348732098500427	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/kr20_deleted	0.75859494132094207	0.75859494132094241	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/p	0.5166666666666672	0.5166666666666672	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/r_rest	0.31713786365809143	0.31713786365809138	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/kr20_deleted	0.75464591955175531	0.75464591955175542	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/p	0.4749999999999998	0.4749999999999998	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/r_rest	0.37805738006589096	0.37805738006589101	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/kr20_deleted	0.75010421855105625	0.75010421855105636	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/p	0.6666666666666663	0.6666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/r_rest	0.45574487431542837	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/p	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/r_rest	0.25031503860100135	0.25031503860100124	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M08/kr20_deleted	0.7589231047876656	0.7589231047876656	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/p	0.5333333333333333	0.5333333333333333	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/r_rest	0.40454114044788231	0.40454114044788214	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/kr20_deleted	0.7481143846841477	0.74811438468414782	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/p	0.6666666666666663	0.6666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/r_rest	0.45574487431542826	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/kr20_deleted	0.7447686675149656	0.7447686675149656	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/p	0.6166666666666667	0.6166666666666667	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/r_rest	0.2885360569963023	0.28853605699630225	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/kr20_deleted	0.7566647409627 3151	0.7566647409627 3162	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/p	0.7249999999999998	0.7249999999999998	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/r_rest	0.36200724284235858	0.36200724284235858	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/kr20_deleted	0.7516496606636 2593	0.7516496606636 2604	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/p	0.5250000000000002	0.5250000000000002	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/r_rest	0.21693792325566694	0.21693792325566685	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/kr20_deleted	0.7619694128865 0755	0.7619694128865 0755	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M14/p	0.875	0.875	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/D	0.21875	0.21875	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/r_rest	0.24836764891383376	0.24836764891383378	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/kr20_deleted	0.75896406347990608	0.75896406347990608	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/p	0.43333333333333335	0.43333333333333335	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/r_rest	0.38074814792884462	0.38074814792884462	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/kr20_deleted	0.74992754427507269	0.74992754427507269	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/p	0.64166666666666672	0.64166666666666672	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/r_rest	0.26084801263699164	0.26084801263699159	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/kr20_deleted	0.75857405773803388	0.75857405773803399	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/r_rest	0.34477124568332307	0.34477124568332296	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/kr20_deleted	0.75259340833021106	0.75259340833021106	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/r_rest	0.41189759869322224	0.41189759869322251	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/kr20_deleted	0.74757445018453239	0.7475744501845325	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/p	0.54166666666666663	0.54166666666666663	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M19/D	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/r_rest	0.42869284715973333	0.42869284715973344	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/kr20_deleted	0.74629479609086347	0.74629479609086347	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/r_rest	0.22875523288262992	0.22875523288262997	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/kr20_deleted	0.76108456126377266	0.76108456126377277	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

unrounded application result

Analiz ayarları


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{
  "version": 1,
  "mode": "binary",
  "items": [
    "M01",
    "M02",
    "M03",
    "M04",
    "M05",
    "M06",
    "M07",
    "M08",
    "M09",
    "M10",
    "M11",
    "M12",
    "M13",
    "M14",
    "M15",
    "M16",
    "M17",
    "M18",
    "M19",
    "M20"
```

```
                                                                ],
                                                  "response_column": "",
                                                    "participant_id": "",
                                                     "answer_key": "",
                                                   "options": "ABCDE",
                                                      "blank": "zero",
                                                    "invalid": "exclude",
                                                    "length": "exclude",
                                                      "ties": "stable",
                                                "discrimination": "both",
                                                 "group_fraction": 0.27,
                                                      "d_cutoff": 0.2,
                                                      "r_cutoff": 0.2,
                                                   "removal": "improve",
                                                      "score_min": 0.0,
                                                     "score_max": 4.0,
                                                   "score_ranges": {},
                                                     "item_count": 20,
                                                       "removed": []
}
```


Veri ve sonuç dosyaları

data/workflows/items_binary.csv SHA-256: 9bf9809395a9008e08be9dc6fdfd11ed2b67a280ff6daacd27ee2e79cffa2f69

cases/workflow-items_binary/settings.json SHA-256: 5abf884fd6deaec7e85ed56c69b88587db0f7b6c34e53587ee90f25d53956047

cases/workflow-items_binary/results.json SHA-256: 7412ccd4e88b8b76b557869733598ade3d3041d0261a191c98d480a41e77df7d

82. Test geliştirme ve madde analizi

Senaryo: items_choice · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/n	120	120	—	9.999999999999995e-08	9.999999999999995e-07
initial/k	20	20	—	9.999999999999995e-08	9.999999999999995e-07
initial/kr20	0.7635180736373 5236	0.7635180736373 5236	—	9.999999999999995e-08	9.999999999999995e-07
initial/kr21	0.7492735226545 5349	0.7492735226545 5338	—	9.999999999999995e-08	9.999999999999995e-07
initial/alpha	0.7635180736373 5236	0.7635180736373 5236	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/mean	11.9	11.9	—	9.999999999999995e-08	9.999999999999995e-07
initial/sd	4.1065637151051835	4.1065637151051835	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/p	0.6833333333333335	0.6833333333333335	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/r_rest	0.26935526977162222	0.26935526977162211	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/kr20_deleted	0.75787230107449899	0.75787230107449899	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/p	0.49166666666666664	0.49166666666666664	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/D	0.4375	0.4375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/r_rest	0.29341449519589791	0.29341449519589774	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/kr20_deleted	0.75639881154678656	0.75639881154678668	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/p	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/r_rest	0.22814012115058677	0.22814012115058691	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/kr20_deleted	0.76092416442216981	0.76092416442217004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/p	0.5083333333333333	0.5083333333333333	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/r_rest	0.26348732098500433	0.26348732098500427	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/kr20_deleted	0.75859494132094207	0.75859494132094241	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/p	0.5166666666666672	0.5166666666666672	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/r_rest	0.31713786365809143	0.31713786365809138	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M05/kr20_deleted	0.75464591955175531	0.75464591955175542	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/p	0.47499999999999998	0.47499999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/r_rest	0.37805738006589096	0.37805738006589101	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/kr20_deleted	0.75010421855105625	0.75010421855105636	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/p	0.66666666666666663	0.66666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/r_rest	0.45574487431542837	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/p	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/r_rest	0.25031503860100135	0.25031503860100124	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/kr20_deleted	0.75892310478766656	0.75892310478766656	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/p	0.53333333333333333	0.53333333333333333	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/r_rest	0.40454114044788231	0.40454114044788214	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/kr20_deleted	0.74811438468414477	0.74811438468414782	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/p	0.66666666666666663	0.66666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/r_rest	0.45574487431542826	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M11/p	0.6166666666666667	0.6166666666666667	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/r_rest	0.2885360569963023	0.28853605699630225	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/kr20_deleted	0.75666474096273151	0.75666474096273162	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/p	0.7249999999999998	0.7249999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/r_rest	0.36200724284235858	0.36200724284235858	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/kr20_deleted	0.75164966066362593	0.75164966066362604	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/r_rest	0.21693792325566694	0.21693792325566685	—	9.999999999999995e-08	9.999999999999995e-07
initial/M13/kr20_deleted	0.76196941288650755	0.76196941288650755	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/p	0.875	0.875	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/D	0.21875	0.21875	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/r_rest	0.24836764891383376	0.24836764891383378	—	9.999999999999995e-08	9.999999999999995e-07
initial/M14/kr20_deleted	0.75896406347990608	0.75896406347990608	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/p	0.43333333333333335	0.43333333333333335	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/r_rest	0.38074814792884462	0.38074814792884462	—	9.999999999999995e-08	9.999999999999995e-07
initial/M15/kr20_deleted	0.74992754427507269	0.74992754427507269	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/p	0.64166666666666672	0.64166666666666672	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M16/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/r_rest	0.26084801263699164	0.26084801263699159	—	9.999999999999995e-08	9.999999999999995e-07
initial/M16/kr20_deleted	0.75857405773803388	0.75857405773803399	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/r_rest	0.34477124568332307	0.34477124568332296	—	9.999999999999995e-08	9.999999999999995e-07
initial/M17/kr20_deleted	0.75259340833021106	0.75259340833021106	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/r_rest	0.41189759869322224	0.41189759869322251	—	9.999999999999995e-08	9.999999999999995e-07
initial/M18/kr20_deleted	0.74757445018453239	0.7475744501845325	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/p	0.54166666666666663	0.54166666666666663	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/D	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/r_rest	0.42869284715973333	0.42869284715973344	—	9.999999999999995e-08	9.999999999999995e-07
initial/M19/kr20_deleted	0.74629479609086347	0.74629479609086347	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/r_rest	0.22875523288262992	0.22875523288262997	—	9.999999999999995e-08	9.999999999999995e-07
initial/M20/kr20_deleted	0.76108456126377266	0.76108456126377277	—	9.999999999999995e-08	9.999999999999995e-07
final/n	120	120	—	9.999999999999995e-08	9.999999999999995e-07
final/k	20	20	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/kr20	0.7635180736373 5236	0.7635180736373 5236	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/kr21	0.7492735226545 5349	0.7492735226545 5338	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/alpha	0.7635180736373 5236	0.7635180736373 5236	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/mean	11.9	11.9	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/sd	4.1065637151051 835	4.1065637151051 835	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M01/p	0.6833333333333 3335	0.6833333333333 3335	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M01/D	0.40625	0.40625	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M01/r_rest	0.2693552697716 2222	0.2693552697716 2211	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M01/ kr20_deleted	0.7578723010744 9899	0.7578723010744 9899	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M02/p	0.4916666666666 6664	0.4916666666666 6664	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M02/D	0.4375	0.4375	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M02/r_rest	0.2934144951958 9791	0.2934144951958 9774	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M02/ kr20_deleted	0.7563988115467 8656	0.7563988115467 8668	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M03/p	0.625	0.625	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M03/D	0.34375	0.34375	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M03/r_rest	0.2281401211505 8677	0.2281401211505 8691	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M03/ kr20_deleted	0.7609241644221 6981	0.7609241644221 7004	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M04/p	0.5083333333333 333	0.5083333333333 333	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M04/D	0.59375	0.59375	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M04/r_rest	0.2634873209850 0433	0.2634873209850 0427	—	9.999999999999999 5e-08	9.999999999999999 5e-07
final/M04/ kr20_deleted	0.7585949413209 4207	0.7585949413209 4241	—	9.999999999999999 5e-08	9.999999999999999 5e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M05/p	0.5166666666666672	0.5166666666666672	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/r_rest	0.31713786365809143	0.31713786365809138	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/kr20_deleted	0.75464591955175531	0.75464591955175542	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/p	0.4749999999999998	0.4749999999999998	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/r_rest	0.37805738006589096	0.37805738006589101	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/kr20_deleted	0.75010421855105625	0.75010421855105636	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/p	0.6666666666666663	0.6666666666666663	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/r_rest	0.45574487431542837	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/p	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/D	0.34375	0.34375	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/r_rest	0.25031503860100135	0.25031503860100124	—	9.999999999999995e-08	9.999999999999995e-07
final/M08/kr20_deleted	0.75892310478766656	0.75892310478766656	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/p	0.5333333333333333	0.5333333333333333	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/r_rest	0.40454114044788231	0.40454114044788214	—	9.999999999999995e-08	9.999999999999995e-07
final/M09/kr20_deleted	0.74811438468414477	0.74811438468414782	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/p	0.6666666666666663	0.6666666666666663	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M10/D	0.65625	0.65625	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/r_rest	0.45574487431542826	0.45574487431542832	—	9.999999999999995e-08	9.999999999999995e-07
final/M10/kr20_deleted	0.74476866751490656	0.74476866751490656	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/p	0.6166666666666667	0.6166666666666667	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/r_rest	0.28853605699630023	0.28853605699630225	—	9.999999999999995e-08	9.999999999999995e-07
final/M11/kr20_deleted	0.75666474096273151	0.75666474096273162	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/p	0.7249999999999998	0.7249999999999998	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/D	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/r_rest	0.36200724284235858	0.36200724284235858	—	9.999999999999995e-08	9.999999999999995e-07
final/M12/kr20_deleted	0.75164966066362593	0.75164966066362604	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/r_rest	0.21693792325566694	0.21693792325566685	—	9.999999999999995e-08	9.999999999999995e-07
final/M13/kr20_deleted	0.76196941288650755	0.76196941288650755	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/p	0.875	0.875	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/D	0.21875	0.21875	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/r_rest	0.24836764891383376	0.24836764891383378	—	9.999999999999995e-08	9.999999999999995e-07
final/M14/kr20_deleted	0.75896406347990608	0.75896406347990608	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/p	0.43333333333333335	0.43333333333333335	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M15/r_rest	0.3807481479288462	0.3807481479288462	—	9.999999999999995e-08	9.999999999999995e-07
final/M15/kr20_deleted	0.74992754427507269	0.74992754427507269	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/p	0.6416666666666672	0.6416666666666672	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/D	0.375	0.375	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/r_rest	0.26084801263699164	0.26084801263699159	—	9.999999999999995e-08	9.999999999999995e-07
final/M16/kr20_deleted	0.75857405773803388	0.75857405773803399	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/p	0.52500000000000002	0.52500000000000002	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/D	0.59375	0.59375	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/r_rest	0.34477124568332307	0.34477124568332296	—	9.999999999999995e-08	9.999999999999995e-07
final/M17/kr20_deleted	0.75259340833021106	0.75259340833021106	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/D	0.625	0.625	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/r_rest	0.41189759869322224	0.41189759869322251	—	9.999999999999995e-08	9.999999999999995e-07
final/M18/kr20_deleted	0.74757445018453239	0.7475744501845325	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/p	0.5416666666666663	0.5416666666666663	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/D	0.75	0.75	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/r_rest	0.42869284715973333	0.42869284715973344	—	9.999999999999995e-08	9.999999999999995e-07
final/M19/kr20_deleted	0.74629479609086347	0.74629479609086347	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/p	0.55000000000000004	0.55000000000000004	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/D	0.40625	0.40625	—	9.999999999999995e-08	9.999999999999995e-07
final/M20/r_rest	0.22875523288262992	0.22875523288262997	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M20/kr20_deleted	0.76108456126377266	0.76108456126377277	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

unrounded application result

Analiz ayarları


```
{
  "version": 1,
  "mode": "choice",
  "items": [
    "M01",
    "M02",
    "M03",
    "M04",
    "M05",
    "M06",
    "M07",
    "M08",
    "M09",
    "M10",
    "M11",
    "M12",
    "M13",
    "M14",
    "M15",
    "M16",
    "M17",
    "M18",
    "M19",
    "M20"
  ],
  "response_column": "",
  "participant_id": "",
  "answer_key": "ABCDEABCDEABCDEABCDE",
  "options": "ABCDE",
  "blank": "zero",
  "invalid": "exclude",
  "length": "exclude",
  "ties": "stable",
  "discrimination": "both",
  "group_fraction": 0.27,
  "d_cutoff": 0.2,
```

```
  "r_cutoff": 0.2,
  "removal": "improve",
  "score_min": 0.0,
  "score_max": 4.0,
  "score_ranges": {},
  "item_count": 20,
  "removed": []
}
```


Veri ve sonuç dosyaları

data/workflows/items_choice.csv SHA-256: 9bf9809395a9008e08be9dc6fdfd11ed2b67a280ff6daacd27ee2e79cffa2f69

cases/workflow-items_choice/settings.json SHA-256: 6b4186487a4ec7dc792c43e363ec05e63eac60a15b7d878883ab007fd773835c

cases/workflow-items_choice/results.json SHA-256: 7412ccd4e88b8b76b557869733598ade3d3041d0261a191c98d480a41e77df7d

83. Test geliştirme ve madde analizi

Senaryo: items_stress · CiterLab + R · Girdi satırı: 160

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
step/0/before	0.19873507140365462	0.19873507140365476	—	9.999999999999995e-08	9.999999999999995e-07
step/0/after	0.35212455526364261	0.35212455526364261	—	9.999999999999995e-08	9.999999999999995e-07
step/0/k	11	11	—	9.999999999999995e-08	9.999999999999995e-07
step/1/before	0.35212455526364261	0.35212455526364261	—	9.999999999999995e-08	9.999999999999995e-07
step/1/after	0.45860675831841441	0.45860675831841469	—	9.999999999999995e-08	9.999999999999995e-07
step/1/k	10	10	—	9.999999999999995e-08	9.999999999999995e-07
step/2/before	0.45860675831841441	0.45860675831841469	—	9.999999999999995e-08	9.999999999999995e-07
step/2/after	0.51983137004801916	0.51983137004801916	—	9.999999999999995e-08	9.999999999999995e-07
step/2/k	9	9	—	9.999999999999995e-08	9.999999999999995e-07
step/3/before	0.51983137004801916	0.51983137004801916	—	9.999999999999995e-08	9.999999999999995e-07
step/3/after	0.54591564804348203	0.54591564804348203	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
step/3/k	8	8	—	9.999999999999995e-08	9.999999999999995e-07
step/4/before	0.5459156480434820 3	0.5459156480434820 3	—	9.999999999999995e-08	9.999999999999995e-07
step/4/after	0.5479848427194316	0.5479848427194318 2	—	9.999999999999995e-08	9.999999999999995e-07
step/4/k	7	7	—	9.999999999999995e-08	9.999999999999995e-07
initial/n	160	160	—	9.999999999999995e-08	9.999999999999995e-07
initial/k	12	12	—	9.999999999999995e-08	9.999999999999995e-07
initial/kr20	0.1987350714036546 2	0.1987350714036547 6	—	9.999999999999995e-08	9.999999999999995e-07
initial/kr21	0.1957627126878614 4	0.1957627126878613 3	—	9.999999999999995e-08	9.999999999999995e-07
initial/alpha	0.1987350714036547 6	0.1987350714036547 6	—	9.999999999999995e-08	9.999999999999995e-07
initial/mean	6.118750000000004	6.118750000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/sd	1.9177157369638342	1.9177157369638345	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/p	0.5374999999999998	0.5374999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/D	0.4418604651162790 2	0.4418604651162790 2	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/r_rest	0.1266000878182283 5	0.1266000878182283 7	—	9.999999999999995e-08	9.999999999999995e-07
initial/M01/kr20_deleted	0.1523744028686861 7	0.1523744028686864 2	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/p	0.5	0.5	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/D	0.5116279069767442 1	0.5116279069767442 1	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/r_rest	0.1591398105696542 3	0.1591398105696542 1	—	9.999999999999995e-08	9.999999999999995e-07
initial/M02/kr20_deleted	0.1354244050075662	0.1354244050075664 2	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/p	0.5562500000000002	0.5562500000000002	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/D	0.5813953488372092 2	0.5813953488372092 2	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M03/r_rest	0.20095668799221783	0.20095668799221772	—	9.999999999999995e-08	9.999999999999995e-07
initial/M03/kr20_deleted	0.11384929757343544	0.11384929757343544	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/p	0.5124999999999996	0.5124999999999996	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/D	0.5116279069767442 1	0.5116279069767442 1	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/r_rest	0.21770058762938937	0.21770058762938946	—	9.999999999999995e-08	9.999999999999995e-07
initial/M04/kr20_deleted	0.10439002981760899	0.1043900298176091	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/p	0.5437499999999996	0.5437499999999996	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/D	0.5116279069767442 1	0.5116279069767442 1	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/r_rest	0.2007752608166061	0.2007752608166059 9	—	9.999999999999995e-08	9.999999999999995e-07
initial/M05/kr20_deleted	0.11374463299938646	0.11374463299938671	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/p	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/D	0.5348837209302326 2	0.5348837209302326 2	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/r_rest	0.19352924155531387	0.1935292415553139	—	9.999999999999995e-08	9.999999999999995e-07
initial/M06/kr20_deleted	0.11744689521674882	0.11744689521674918	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/p	0.5187500000000004	0.5187500000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/D	0.5348837209302326 2	0.5348837209302326 2	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/r_rest	0.19434315811937256	0.1943431581193725	—	9.999999999999995e-08	9.999999999999995e-07
initial/M07/kr20_deleted	0.11691986133768319	0.11691986133768367	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/p	0.4625000000000002	0.4625000000000002	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/D	0.4186046511627906 6	0.4186046511627906 6	—	9.999999999999995e-08	9.999999999999995e-07
initial/M08/r_rest	0.12242049333544133	0.12242049333544137	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
initial/M08/kr20_deleted	0.15451081296330296	0.15451081296330332	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/p	0.4749999999999998	0.4749999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/D	-0.11627906976744184	-0.11627906976744184	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/r_rest	-0.31128263616079138	-0.31128263616079144	—	9.999999999999995e-08	9.999999999999995e-07
initial/M09/kr20_deleted	0.35212455526364261	0.35212455526364261	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/p	0.4749999999999998	0.4749999999999998	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/D	0.023255813953488358	0.023255813953488358	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/r_rest	-0.25288606373159267	-0.25288606373159273	—	9.999999999999995e-08	9.999999999999995e-07
initial/M10/kr20_deleted	0.32818080859621207	0.32818080859621218	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/p	0.4874999999999999	0.4874999999999999	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/D	0.37209302325581395	0.37209302325581395	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/r_rest	0.06737307413197817	0.06737307413197816	—	9.999999999999995e-08	9.999999999999995e-07
initial/M11/kr20_deleted	0.18220112090814974	0.18220112090814974	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/p	0.5187500000000004	0.5187500000000004	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/D	0.23255813953488375	0.23255813953488375	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/r_rest	-0.07831240386972429 5	-0.07831240386972426 7	—	9.999999999999995e-08	9.999999999999995e-07
initial/M12/kr20_deleted	0.25182529908515117	0.25182529908515139	—	9.999999999999995e-08	9.999999999999995e-07
final/n	160	160	—	9.999999999999995e-08	9.999999999999995e-07
final/k	7	7	—	9.999999999999995e-08	9.999999999999995e-07
final/kr20	0.5479848427194316	0.5479848427194318 2	—	9.999999999999995e-08	9.999999999999995e-07
final/kr21	0.5471841704718416 5	0.5471841704718417 6	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/alpha	0.54798484271943171	0.54798484271943182	—	9.999999999999995e-08	9.999999999999995e-07
final/mean	3.7000000000000002	3.7000000000000002	—	9.999999999999995e-08	9.999999999999995e-07
final/sd	1.8181475125408526	1.8181475125408528	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/p	0.5374999999999998	0.5374999999999998	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/D	0.4651162790697738	0.4651162790697738	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/r_rest	0.17409218499962659	0.17409218499962664	—	9.999999999999995e-08	9.999999999999995e-07
final/M01/kr20_deleted	0.5479847649366150 8	0.5479847649366153	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/p	0.5	0.5	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/D	0.7209302325581394 8	0.7209302325581394 8	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/r_rest	0.2299272523068622	0.2299272523068621 7	—	9.999999999999995e-08	9.999999999999995e-07
final/M02/kr20_deleted	0.5269031954887216 7	0.5269031954887217 8	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/p	0.5562500000000002	0.5562500000000002	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/D	0.6744186046511627 7	0.6744186046511627 7	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/r_rest	0.3263419422039471 9	0.3263419422039472 4	—	9.999999999999995e-08	9.999999999999995e-07
final/M03/kr20_deleted	0.4888730628106081 1	0.4888730628106083 8	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/p	0.5124999999999996	0.5124999999999996	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/D	0.7441860465116279	0.7441860465116279	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/r_rest	0.2937594352023394 9	0.2937594352023396	—	9.999999999999995e-08	9.999999999999995e-07
final/M04/kr20_deleted	0.5018580566554979 9	0.5018580566554979 9	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/p	0.5437499999999996	0.5437499999999996	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/D	0.7674418604651163 1	0.7674418604651163 1	—	9.999999999999995e-08	9.999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
final/M05/r_rest	0.336082467380311	0.33608246738031095	—	9.999999999999995e-08	9.999999999999995e-07
final/M05/kr20_deleted	0.48486170627191244	0.48486170627191272	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/p	0.53125	0.53125	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/D	0.58139534883720934	0.58139534883720934	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/r_rest	0.27747430069771245	0.27747430069771245	—	9.999999999999995e-08	9.999999999999995e-07
final/M06/kr20_deleted	0.50833195095836259	0.5083319509583627	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/p	0.51875000000000004	0.51875000000000004	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/D	0.58139534883720934	0.58139534883720934	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/r_rest	0.28817079929192307	0.28817079929192291	—	9.999999999999995e-08	9.999999999999995e-07
final/M07/kr20_deleted	0.50408779732539921	0.50408779732539954	—	9.999999999999995e-08	9.999999999999995e-07

Karşılaştırma ayrıntısı

unrounded application result

Analiz ayarları


```
{
                "version": 1,
                "mode": "binary",
                "items": [
                "M01",
                "M02",
                "M03",
                "M04",
                "M05",
                "M06",
                "M07",
                "M08",
                "M09",
                "M10",
                "M11",
                "M12"
                ],
                "response_column": "",
```

```
    "participant_id": "",
    "answer_key": "",
    "options": "ABCDE",
    "blank": "zero",
    "invalid": "exclude",
    "length": "exclude",
    "ties": "stable",
    "discrimination": "both",
    "group_fraction": 0.27,
    "d_cutoff": 0.2,
    "r_cutoff": 0.2,
    "removal": "improve",
    "score_min": 0.0,
    "score_max": 4.0,
    "score_ranges": {},
    "item_count": 12,
    "removed": [
      "M09",
      "M10",
      "M12",
      "M11",
      "M08"
    ]
}
```


Veri ve sonuç dosyaları

data/workflows/items_stress.csv SHA-256: e825fbbc536bc4096b66e205622667e45bfb3da39ffc71a6bcdd224ebaa89aa4

cases/workflow-items_stress/settings.json SHA-256: ca475878d123b41481cf228f0e85afa482838a8d67fb0ae6d529a1c4e0692ef4

cases/workflow-items_stress/results.json SHA-256: b8bdad9fa60b389bacc2fd50ae58f2d105a0b11d5b40815b45434546bfadf579

84. Yarı deneysel

Senaryo: quasi · CiterLab + R · Girdi satırı: 40

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
0/statistic	-0.10926587592660143	-0.10926587592659839	—	9.9999999999999995e-08	9.9999999999999995e-07
0/p	0.91356659298518506	0.9135665929851875	—	9.9999999999999995e-08	9.9999999999999995e-07
0/df	38	38	—	9.9999999999999995e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
0/effect	-0.034552903846142166	-0.034552903846141202	—	9.9999999999999995e-08	9.9999999999999995e-07
1/statistic	-0.96802313117680017	-0.96802313117680017	—	9.9999999999999995e-08	9.9999999999999995e-07
1/p	0.3391539053681496	0.33915390536815027	—	9.9999999999999995e-08	9.9999999999999995e-07
1/df	38	38	—	9.9999999999999995e-08	9.9999999999999995e-07
1/effect	-0.3061157922246639	-0.30611579222466401	—	9.9999999999999995e-08	9.9999999999999995e-07
2/statistic	2.6074403283770256	2.6074403283770256	—	9.9999999999999995e-08	9.9999999999999995e-07
2/p	0.017308123393149216	0.017308123393149216	—	9.9999999999999995e-08	9.9999999999999995e-07
2/df	19	19	—	9.9999999999999995e-08	9.9999999999999995e-07
2/effect	0.58304138215254042	0.58304138215254031	—	9.9999999999999995e-08	9.9999999999999995e-07
3/statistic	5.8106095650164518	5.8106095650164509	—	9.9999999999999995e-08	9.9999999999999995e-07
3/p	1.3452529365626701e-05	1.3452529365626713e-05	—	9.9999999999999995e-08	9.9999999999999995e-07
3/df	19	19	—	9.9999999999999995e-08	9.9999999999999995e-07
3/effect	1.2992917978087268	1.2992917978087268	—	9.9999999999999995e-08	9.9999999999999995e-07
4/statistic	-2.4165318484868497	-2.4165318484868492	—	9.9999999999999995e-08	9.9999999999999995e-07
4/p	0.020579857220993591	0.020579857220993595	—	9.9999999999999995e-08	9.9999999999999995e-07
4/df	38	38	—	9.9999999999999995e-08	9.9999999999999995e-07
4/effect	-0.76417446795553634	-0.76417446795553623	—	9.9999999999999995e-08	9.9999999999999995e-07
5/statistic	5.8396261747512339	5.839626174751265	—	9.9999999999999995e-08	9.9999999999999995e-07
5/p	0.020579857220993952	0.02057985722099364	—	9.9999999999999995e-08	9.9999999999999995e-07
5/df1	1	1	—	9.9999999999999995e-08	9.9999999999999995e-07
5/df2	38	38	—	9.9999999999999995e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
5/effect	0.13320428763406011	0.13320428763406073	—	9.9999999999999995e-08	9.9999999999999995e-07
6/statistic	5.6840594270545433	5.6840594270545832	—	9.9999999999999995e-08	9.9999999999999995e-07
6/p	0.022361089866660089 6	0.022361089866660045 2	—	9.9999999999999995e-08	9.9999999999999995e-07
6/df1	1	1	—	9.9999999999999995e-08	9.9999999999999995e-07
6/df2	37	37	—	9.9999999999999995e-08	9.9999999999999995e-07
6/effect	0.13316585871520462	0.13316585871520542	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

unrounded application result

Analiz ayarları


```
{
                    "group": "D1",
             "participant_id": "ID",
                    "pairs": [
                             {
                      "name": "Achievement",
                       "pre": "Achievement_pre",
                      "post": "Achievement_post"
                             }
                    ],
                    "alpha": 0.05,
                  "missing": "complete_pairs",
                 "adjusted": true,
              "interaction": true,
                  "factors": [],
            "report_format": "detailed",
                  "version": 1,
                  "cluster": "",
                   "groups": [
                             "0",
                             "1"
                    ],
           "report_chapter": 4,
          "pre_comparison": true,
         "post_comparison": true,
       "change_comparison": true,
```

"moderators": true

}

Veri ve sonuç dosyaları

data/workflows/quasi.csv SHA-256: e504afa0f95a74334ce4019b2dac982fb4b4cb80f167d028b248e27d271e15ad

cases/workflow-quasi/settings.json SHA-256: 50edfc2ead7c60da9d3c5b48038ada3fb2569bbfa3b48cf78ae8cab2827750c8

cases/workflow-quasi/results.json SHA-256: ed71035e9ddd9c943732e1d11045429f9ad6b77afbbdef83cd7f8806939abdef

85. Korelasyonel analiz

Senaryo: correlational · CiterLab + R · Girdi satırı: 60

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
0/statistic	0.3038607016087192	0.3038607016087192	—	9.9999999999999995e-08	9.9999999999999995e-07
0/p	0.018260708613671225	0.018260708613671191	—	9.9999999999999995e-08	9.9999999999999995e-07
0/holm_p	0.054782125841013676	0.054782125841013572	—	9.9999999999999995e-08	9.9999999999999995e-07
0/ci/0	0.054111088395480879	0.054111088395480934	—	9.9999999999999995e-08	9.9999999999999995e-07
0/ci/1	0.51783075423351232	0.51783075423351232	—	9.9999999999999995e-08	9.9999999999999995e-07
1/statistic	0.1844817456235846	0.1844817456235846	—	9.9999999999999995e-08	9.9999999999999995e-07
1/p	0.15822296325537699	0.15822296325537727	—	9.9999999999999995e-08	9.9999999999999995e-07
1/holm_p	0.31644592651075398	0.31644592651075454	—	9.9999999999999995e-08	9.9999999999999995e-07
1/ci/0	-0.072855850665932004	-0.07285585066593192	—	9.9999999999999995e-08	9.9999999999999995e-07
1/ci/1	0.41878852074698231	0.41878852074698231	—	9.9999999999999995e-08	9.9999999999999995e-07
2/statistic	0.031335298779063485	0.031335298779063478	—	9.9999999999999995e-08	9.9999999999999995e-07
2/p	0.8121334830998348	0.81213348309983324	—	9.9999999999999995e-08	9.9999999999999995e-07
2/holm_p	0.8121334830998348	0.81213348309983324	—	9.9999999999999995e-08	9.9999999999999995e-07
2/ci/0	-0.22437470975837506	-0.22437470975837506	—	9.9999999999999995e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
2/ci/1	0.28300816004204266	0.2830081600420426	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/0/B	0.016130027409568825	0.016130027409568773	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/0/se	0.16252113336562898	0.1625211333656289	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/0/p	0.92094072954995831	0.9209407295499585 4	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/1/B	0.35007779074739592	0.3500777907473960 3	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/1/se	0.12798948837769236	0.1279894883776923 1	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/1/p	0.00623409904171810 98	0.0062340990417180 759	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/2/B	0.19640008132225587	0.1964000813222556 4	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/2/se	0.13747839985036833	0.1374783998503681 4	—	9.9999999999999995e-08	9.9999999999999995e-07
coef/2/p	0.15312249894941679	0.1531224989494167 1	—	9.9999999999999995e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

unrounded application result

Analiz ayarları


```
{
  "version": 1,
  "scales": [
    {
      "name": "A",
      "source": "score",
      "column": "A_total"
    },
    {
      "name": "B",
      "source": "score",
      "column": "B_total"
    },
    {
      "name": "C",
      "source": "score",
      "column": "C_total"
    }
```

```
    ],
    "factors": [
      {
        "column": "D1",
        "kind": "categorical"
      }
    ],
    "participant_id": "ID",
    "independent": true,
    "alpha": 0.05,
    "missing": "available",
    "correlation": "pearson",
    "regression": {
      "y": "A",
      "predictors": [
        "B",
        "C"
      ],
      "factors": []
    },
    "canonical": null,
    "comparison_mode": "separate",
    "comparison_outcomes": [
      "A",
      "B",
      "C"
    ],
    "reliability": [
      "alpha"
    ],
    "validity": [],
    "draws": 200,
    "numeric_relations": false,
    "template_kind": "correlational",
    "primary_scores": [
      "A",
      "B",
      "C"
    ],
    "correlation_pairs": [
      [
        "A",
        "B"
      ],
      [
        "A",
```

"C"
],
[
"B",
"C"
]
],
"score_names": [
"A",
"B",
"C"
]
}

Veri ve sonuç dosyaları

data/workflows/correlational.csv SHA-256: 26d6ea5354c7adeda7ea5b855efb68ede82edbdc3e908b9fd241c023067b3421

cases/workflow-correlational/settings.json SHA-256: 18fd8b245138aa3752fe55889a5f2809e42b0f8c3808312bf308897fce37c571

cases/workflow-correlational/results.json SHA-256: 91b107b55ee5108357744c581f9dc12f4b70715d4b1ccaa15fcd284e1f4064f8

86. Olasılık dağılımları

Senaryo: probability · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
0/p	0.99931286206208414	0.99931286206208414	—	9.999999999999998e-13	1.0000000000000001e-09
1/p	0.00068713793791584708	0.00068713793791584806	—	9.999999999999998e-13	1.0000000000000001e-09
2/p	0.13497892300846681	0.13497892300846681	—	9.999999999999998e-13	1.0000000000000001e-09
3/p	0.86502107699153319	0.86502107699153319	—	9.999999999999998e-13	1.0000000000000001e-09
4/threshold	1.959963984540054	1.9599639845400536	—	1.0000000000000001e-09	9.999999999999995e-07
4/p	0.9749999999999998	0.9749999999999998	—	9.999999999999998e-13	1.0000000000000001e-09
5/p	0.99931286206208414	0.99931286206208414	—	9.999999999999998e-13	1.0000000000000001e-09
6/p	0.00068713793791584708	0.00068713793791584806	—	9.999999999999998e-13	1.0000000000000001e-09

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
7/p	0.1349789230084668 1	0.1349789230084668 1	—	9.999999999999999 8e-13	1.000000000000000 1e-09
8/p	0.8650210769915331 9	0.8650210769915331 9	—	9.999999999999999 8e-13	1.000000000000000 1e-09
9/ threshold	1.959963984540054	1.9599639845400536	—	1.000000000000000 1e-09	9.999999999999999 5e-07
9/p	0.9749999999999999 8	0.9749999999999999 8	—	9.999999999999999 8e-13	1.000000000000000 1e-09
10/p	0.9952541521023481 3	0.9952541521023481 3	—	9.999999999999999 8e-13	1.000000000000000 1e-09
11/p	0.0047458478976519 182	0.0047458478976519 216	—	9.999999999999999 8e-13	1.000000000000000 1e-09
12/p	0.1438075631364076 6	0.1438075631364077 5	—	9.999999999999999 8e-13	1.000000000000000 1e-09
13/p	0.8561924368635922 5	0.8561924368635922 5	—	9.999999999999999 8e-13	1.000000000000000 1e-09
14/ threshold	2.2281388519862744	2.2281388519862739	—	1.000000000000000 1e-09	9.999999999999999 5e-07
14/p	0.9749999999999999 8	0.9749999999999999 8	—	9.999999999999999 8e-13	1.000000000000000 1e-09
15/p	0.0236822780493116 81	0.0236822780493116 95	—	9.999999999999999 8e-13	1.000000000000000 1e-09
16/p	0.9763177219506883 3	0.9763177219506883 3	—	9.999999999999999 8e-13	1.000000000000000 1e-09
17/p	0.0234162518088789 77	0.0234162518088789 91	—	9.999999999999999 8e-13	1.000000000000000 1e-09
18/p	0.9765837481911210 4	0.9765837481911210 4	—	9.999999999999999 8e-13	1.000000000000000 1e-09
19/ threshold	20.483177350807388	20.483177350807395	—	1.000000000000000 1e-09	9.999999999999999 5e-07
19/p	0.9749999999999999 8	0.9749999999999999 8	—	9.999999999999999 8e-13	1.000000000000000 1e-09
20/p	0.6472318887822312 6	0.6472318887822311 5	—	9.999999999999999 8e-13	1.000000000000000 1e-09
21/p	0.3527681112177686 9	0.3527681112177688 5	—	9.999999999999999 8e-13	1.000000000000000 1e-09
22/p	0.4480836153107754 5	0.4480836153107753 4	—	9.999999999999999 8e-13	1.000000000000000 1e-09
23/p	0.5519163846892245 5	0.5519163846892246 6	—	9.999999999999999 8e-13	1.000000000000000 1e-09
24/ threshold	7	7	—	1.000000000000000 1e-09	9.999999999999999 5e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
24/p	0.9880954961436425 6	0.9880954961436425 6	—	9.999999999999999 8e-13	1.000000000000000 1e-09
25/p	0	0	—	1.000000000000000 1e-30	1.000000000000000 1e-09
26/p	0.171875	0.1718750000000000 6	—	9.999999999999999 8e-13	1.000000000000000 1e-09
27/p	0.828125	0.828125	—	9.999999999999999 8e-13	1.000000000000000 1e-09
28/p	0.1611328125	0.1611328125000000 6	—	9.999999999999999 8e-13	1.000000000000000 1e-09
29/p	0.8388671875	0.8388671875	—	9.999999999999999 8e-13	1.000000000000000 1e-09
30/ threshold	8	8	—	1.000000000000000 1e-09	9.999999999999999 5e-07
30/p	0.9892578125	0.9892578125	—	9.999999999999999 8e-13	1.000000000000000 1e-09
31/p	0	0	—	1.000000000000000 1e-30	1.000000000000000 1e-09
32/p	6.2209605742717405 e-16	6.2209605742717849 e-16	—	1.000000000000000 1e-30	1.000000000000000 1e-09
33/p	1.5239706048320939 e-23	1.5239706048321054 e-23	—	1.000000000000000 1e-30	1.000000000000000 1e-09

Karşılaştırma ayrıntısı

unrounded application result

Analiz ayarları


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Veri ve sonuç dosyaları

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cases/workflow-probability/results.json SHA-256: 34ca26ffb64660b49c0b7f5bbe46abe1aef7c13c920550a2ea53102d366b1c73

87. SEM stüdyosu AFA

Senaryo: sem_efa · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
x0	0.871	0.87113915023308153	—	0.002	9.9999999999999995e-07
x1	0.78300000000000003	0.78287718874385381	—	0.002	9.9999999999999995e-07
x2	0.77400000000000002	0.77418351415644104	—	0.002	9.9999999999999995e-07
m0	0.79700000000000004	0.79692372634427333	—	0.002	9.9999999999999995e-07
m1	0.79100000000000004	0.79124767767153614	—	0.002	9.9999999999999995e-07
m2	0.84199999999999997	0.84191980373826525	—	0.002	9.9999999999999995e-07
y0	0.83199999999999996	0.8322774340801794	—	0.002	9.9999999999999995e-07
y1	0.85499999999999998	0.85463402939249555	—	0.002	9.9999999999999995e-07
y2	0.83999999999999997	0.8403925035056552	—	0.002	9.9999999999999995e-07

Karşılaştırma ayrıntısı

MINRES communalities independent optimizer and 3-decimal report cell

Analiz ayarları

{
"model": "See the saved input-column labels and matched covariance/regression model in the technical report."
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Veri ve sonuç dosyaları

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cases/sem-details-sem_efa/results.json SHA-256: 2e3aac0f9ebe70596914485d8881531a66af9cf431339c5a8c0d5e00560252f7

88. Yol analizi

Senaryo: sem_path · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
M/X/B	0.6135673814032776	0.61356738153028945	—	1.0000000000000001e-05	9.9999999999999995e-07
M/X/std	0.6489782492858952	0.64897824941888937	—	1.0000000000000001e-05	9.9999999999999995e-07
M/X/se	0.04643024535627855	0.046430245349451629	—	1.0000000000000001e-05	9.9999999999999995e-07
M/X/z	13.214821000447134	13.214821005410347	—	1.0000000000000001e-05	9.9999999999999995e-07
M/X/p	0	0	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/M/B	0.7461317001234040 2	0.74613169978041616	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/M/std	0.6678076634820698 8	0.66780766317369644	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/M/se	0.0583478162426349 51	0.058347816260530441	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/M/z	12.787654245839887	12.787654236258696	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/M/p	0	0	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/X/B	0.1786262559091294 8	0.17862625620063088	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/X/std	0.1691021308095769 8	0.16910213108483266	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/X/se	0.0551641243169337 66	0.055164124333967418	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/X/z	3.2380874004204645	3.2380874047635597	—	1.0000000000000001e-05	9.9999999999999995e-07
Y/X/p	0.0012033393889046 007	0.0012033393705854 767	—	1.0000000000000001e-05	9.9999999999999995e-07
r2/M	0.4211727680461854 2	0.42117276821880612	—	1.0000000000000001e-05	9.9999999999999995e-07
r2/Y	0.6211378466613219 9	0.62113784654348758	—	1.0000000000000001e-05	9.9999999999999995e-07

Karşılaştırma ayrıntısı

unrounded observed path ML result

Analiz ayarları

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Veri ve sonuç dosyaları

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cases/sem-details-sem_path/settings.json SHA-256: 0d95162d0b36d757866a92241336bead8aee6d05aa469e41e714924d56acbd40

cases/sem-details-sem_path/results.json SHA-256: 2254f38006075baf4e92bab6867c0ab1afecb2df4743248a7648dcc9ea62e9fc

89. Kesin binom testi

Senaryo: binomial_two-sided · CiterLab + R · Girdi satırı: 101

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
n	100	100	—	1e-08	9.9999999999999995e-07
successes	29	29	—	1e-08	9.9999999999999995e-07
estimate	0.28999999999999998	0.28999999999999998	—	1e-08	9.9999999999999995e-07
p	0.9132161352465693	0.91321613524656997	—	1e-08	9.9999999999999995e-07
ci_low	0.20357418925074594	0.2035741892507319	—	1e-08	9.9999999999999995e-07
ci_high	0.38926595890778776	0.38926595890744842	—	1e-08	9.9999999999999995e-07
excluded_rows	1	1	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"include_plot": false,
"plot": false,
"independent": true,
"confidence": 0.95,
"x": "v",

"null_probability": 0.3,
"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/supplement/binomial_two-sided.csv SHA-256: ab73bc973dceee38f76960e625afc6eb43841c42d8c923b0c35cff6c3c62f01e

cases/supplement-binomial_two-sided/settings.json SHA-256: 6f221ce40b24f6894d098906965cda65844498392c8a067dd9f72b2777510390

cases/supplement-binomial_two-sided/results.json SHA-256: 51c78c08d72a53025254103bf4286e7fa6fd3474eef7447b37a53b13076d7448

90. Kesin binom testi

Senaryo: binomial_less · CiterLab + R · Girdi satırı: 101

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
n	100	100	—	1e-08	9.9999999999999995e-07
successes	29	29	—	1e-08	9.9999999999999995e-07
estimate	0.28999999999999998	0.28999999999999998	—	1e-08	9.9999999999999995e-07
p	0.46233973601535955	0.46233973601536055	—	1e-08	9.9999999999999995e-07
ci_low	0.20357418925074594	0.2035741892507319	—	1e-08	9.9999999999999995e-07
ci_high	0.38926595890778776	0.38926595890744842	—	1e-08	9.9999999999999995e-07
excluded_rows	1	1	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"include_plot": false,
"plot": false,
"independent": true,
"confidence": 0.95,
"x": "v",
"null_probability": 0.3,
"alternative": "less"
}

Veri ve sonuç dosyaları

data/supplement/binomial_less.csv SHA-256: ab73bc973dceee38f76960e625afc6eb43841c42d8c923b0c35cff6c3c62f01e

> cases/supplement-binomial_less/settings.json SHA-256: f7928de9bf9ac9de867e9f84425d3b650a51cd3013abd47badeb2780a9245e1f
>
> cases/supplement-binomial_less/results.json SHA-256: f71716b7c4ca1d86be60575f20e98467e0113433b8e2391b5a8e39d9874f42bb

91. Kesin binom testi

Senaryo: binomial_greater · CiterLab + R · Girdi satırı: 101

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
n	100	100	—	1e-08	9.9999999999999995e-07
successes	29	29	—	1e-08	9.9999999999999995e-07
estimate	0.28999999999999998	0.28999999999999998	—	1e-08	9.9999999999999995e-07
p	0.6232218207837944	0.62322182078379251	—	1e-08	9.9999999999999995e-07
ci_low	0.20357418925074594	0.2035741892507319	—	1e-08	9.9999999999999995e-07
ci_high	0.38926595890778776	0.38926595890744842	—	1e-08	9.9999999999999995e-07
excluded_rows	1	1	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
    "include_plot": false,
    "plot": false,
    "independent": true,
    "confidence": 0.95,
    "x": "v",
    "null_probability": 0.3,
    "alternative": "greater"
}
```


Veri ve sonuç dosyaları

> data/supplement/binomial_greater.csv SHA-256: ab73bc973dceee38f76960e625afc6eb43841c42d8c923b0c35cff6c3c62f01e
>
> cases/supplement-binomial_greater/settings.json SHA-256: 21e43dfc051e2eb512896b9eadca79186bc2f2291911ba1dbac1f1521717739f
>
> cases/supplement-binomial_greater/results.json SHA-256: 034a36c509758e8d442b92bd53b9801e244290c0680e448d8c9535348f7f4d12

92. Bland–Altman ölçüm uyumu

Senaryo: bland_altman · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
n	119	119	—	1e-08	9.9999999999999995e-07
bias	-0.2084447627033269	-0.20844476270332699	—	1e-08	9.9999999999999995e-07
sd_difference	0.48315061155143491	0.48315061155143491	—	1e-08	9.9999999999999995e-07
loa_low	-1.1554199613441392	-1.1554199613441394	—	1e-08	9.9999999999999995e-07
loa_high	0.73853043593748546	0.73853043593748535	—	1e-08	9.9999999999999995e-07
bias_ci_low	-0.29615170172786304	-0.29615170172786226	—	1e-08	9.9999999999999995e-07
bias_ci_high	-0.12073782367879078	-0.12073782367879173	—	1e-08	9.9999999999999995e-07
excluded_rows	1	1	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "x": "a",
  "y": "b"
}
```


Veri ve sonuç dosyaları

> data/supplement/bland_altman.csv SHA-256: bd4d077e461576b63f11b746af720e11e1f2cf07c9302cb1b05afa56fd449656
>
> cases/supplement-bland_altman/settings.json SHA-256: b8ac64c2ed8989e5bfb884ad8b4e22981804734c3e28c02bf2e086ec3de05f12
>
> cases/supplement-bland_altman/results.json SHA-256: a0d997896af240104d5762090a4c9238ebe9e545cbecbe20ac1a8ebbc3a284c0

93. Ortalama için güven aralığı

Senaryo: mean_interval · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
estimate	0.72408311694993344	0.72408311694993344	—	1e-08	9.9999999999999995e-07
se	0.17562810373508572	0.17562810373508572	—	1e-08	9.9999999999999995e-07
df	119	119	—	1e-08	9.9999999999999995e-07
ci_low	0.37632193044172357	0.37632193044172707	—	1e-08	9.9999999999999995e-07
ci_high	1.0718443034581433	1.07184430345814	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
                "include_plot":  false,
                "plot":  false,
                "independent":  true,
                "confidence":  0.95,
                "y":  "y",
                "group":  "group"
}
```


Veri ve sonuç dosyaları

> data/supplement/mean_interval.csv SHA-256: b7528182e77739a900278d26bb308e2ccc7af26b87a2bbd18a889606923904ca
>
> cases/supplement-mean_interval/settings.json SHA-256: 408a217a11f7a7910a0c12e68852eeb540102a259f09f01b1ecc2ce65ca863b3
>
> cases/supplement-mean_interval/results.json SHA-256: 75eabfa4b03ee68527d5433339e92f4ca13e454ab0b44443cd8e6d1c09c8bf13

94. Yüzdeliklere dayalı referans aralığı

Senaryo: reference_interval · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
lower	-2.7103062326417313	-2.7103062326417344	—	1e-08	9.9999999999999995e-07
upper	4.4916340515110651	4.4916340515110642	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları

{
"include_plot": false,
"plot": false,
"independent": true,
"confidence": 0.95,
"y": "y",
"group": "group"
}

Veri ve sonuç dosyaları

data/supplement/reference_interval.csv SHA-256: b7528182e77739a900278d26bb308e2ccc7af26b87a2bbd18a889606923904ca

cases/supplement-reference_interval/settings.json SHA-256: 408a217a11f7a7910a0c12e68852eeb540102a259f09f01b1ecc2ce65ca863b3

cases/supplement-reference_interval/results.json SHA-256: 2bd14fa577d2f243da20fa0151591255e629abf25000ceaf14ef813974b765c2

95. Brown–Forsythe — ortalama farkı

Senaryo: bf_means · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic	0.20822579483879186	0.20822579483879128	—	1e-08	9.9999999999999995e-07
p	0.64900195152156204	0.64900195152156259	—	1e-08	9.9999999999999995e-07
df1	1	1	—	1e-08	9.9999999999999995e-07
df2	117.77492710486533	117.77492710486534	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"include_plot": false,
"plot": false,
"independent": true,
"confidence": 0.95,
"y": "y",
"group": "group"
}

Veri ve sonuç dosyaları

data/supplement/bf_means.csv SHA-256: b7528182e77739a900278d26bb308e2ccc7af26b87a2bbd18a889606923904ca

cases/supplement-bf_means/settings.json SHA-256: 408a217a11f7a7910a0c12e68852eeb540102a259f09f01b1ecc2ce65ca863b3

cases/supplement-bf_means/results.json SHA-256: b85d8d37c64640c5a5100a35a88ce5163ce47d2560bf858e1fe7e70aad8edb23

96. Brown–Forsythe — varyans homojenliği

Senaryo: bf_variances · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
statistic	0.05211350655693673	0.052113506556936709	—	1e-08	9.9999999999999995e-07
p	0.8198207222269891	0.8198207222269891	—	1e-08	9.9999999999999995e-07
df1	1	1	—	1e-08	9.9999999999999995e-07
df2	118	118	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "y": "y",
  "group": "group"
}
```


Veri ve sonuç dosyaları

data/supplement/bf_variances.csv SHA-256: b7528182e77739a900278d26bb308e2ccc7af26b87a2bbd18a889606923904ca

cases/supplement-bf_variances/settings.json SHA-256: 408a217a11f7a7910a0c12e68852eeb540102a259f09f01b1ecc2ce65ca863b3

cases/supplement-bf_variances/results.json SHA-256: d068d4be9d38be4a9c64478b66bd3efffa5627e8b0f9d31d05508bc5bf00d2cc

97. Meta analiz — ortak etki

Senaryo: meta_fixed · CiterLab + R · Girdi satırı: 20

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
estimate	0.33418444246346779	0.33418444246346779	—	1e-08	9.9999999999999995e-07
se	0.081673868476253519	0.081673868476253533	—	1e-08	9.9999999999999995e-07
ci_low	0.17410660177194964	0.17410660177194964	—	1e-08	9.9999999999999995e-07
ci_high	0.49426228315498594	0.49426228315498594	—	1e-08	9.9999999999999995e-07
tau2	0	0	—	1e-08	9.9999999999999995e-07
Q	24.803068744078306	24.803068744078296	—	1e-08	9.9999999999999995e-07
I2	0.23396575657452789	0.23396575657452756	—	1e-08	9.9999999999999995e-07
hksj_ci_low	0.13887049662148643	0.1388704966214864	—	1e-08	9.9999999999999995e-07
hksj_ci_high	0.52949838830544915	0.52949838830544915	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "x": "effect",
  "y": "variance"
}
```


Veri ve sonuç dosyaları

data/supplement/meta_fixed.csv SHA-256: 37ce158861fa6f8d1a3ad1c7a500ed9a2acc9a021891e09d6b801785d1a7e265

cases/supplement-meta_fixed/settings.json SHA-256: 8c8ebe1c791434fb254777c774868df30461a0bfcc1726e38e7af808962aab85

cases/supplement-meta_fixed/results.json SHA-256: 528186032f5d58e5bb9b1a733134b20078f8b4b6c45dd15e1e38b28025b64fca

98. Meta analiz — rastgele etkiler (Paule–Mandel)

Senaryo: meta_random · CiterLab + R · Girdi satırı: 20

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
estimate	0.33267157458701319	0.33267157458701313	—	1e-08	9.9999999999999995e-07
se	0.092844325320295365	0.092844325320295365	—	1e-08	9.9999999999999995e-07
ci_low	0.15070004079031404	0.15070004079031404	—	1e-08	9.9999999999999995e-07
ci_high	0.5146431083837123	0.51464310838371219	—	1e-08	9.9999999999999995e-07
tau2	0.037322015342354728	0.037322015342354693	—	1e-08	9.9999999999999995e-07
Q	24.803068744078306	24.803068744078296	—	1e-08	9.9999999999999995e-07
I2	0.23396575657452789	0.23396575657452756	—	1e-08	9.9999999999999995e-07
hksj_ci_low	0.13834616837632457	0.13834616837632449	—	1e-08	9.9999999999999995e-07
hksj_ci_high	0.52699698079770174	0.52699698079770174	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "x": "effect",
  "y": "variance"
}
```


Veri ve sonuç dosyaları

> data/supplement/meta_random.csv SHA-256: 37ce158861fa6f8d1a3ad1c7a500ed9a2acc9a021891e09d6b801785d1a7e265
>
> cases/supplement-meta_random/settings.json SHA-256: 8c8ebe1c791434fb254777c774868df30461a0bfcc1726e38e7af808962aab85
>
> cases/supplement-meta_random/results.json SHA-256: f32fbd438199ea5b6f9356fdb336715b8ad407b8a21d3a0941b831a0e19429a0

99. ROC / AUC — DeLong belirsizliği

Senaryo: roc_auc_higher · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
auc	0.68727373990531893	0.68727373990531881	—	1e-08	9.9999999999999995e-07
se	0.049362078435546596	0.049362078435546589	—	1e-08	9.9999999999999995e-07
ci_low	0.59052584396960639	0.59052584396960628	—	1e-08	9.9999999999999995e-07
ci_high	0.78402163584103146	0.78402163584103135	—	1e-08	9.9999999999999995e-07
positive_n	57	57	—	1e-08	9.9999999999999995e-07
negative_n	63	63	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "x": "score",
  "y": "event",
  "direction": "higher"
}
```


Veri ve sonuç dosyaları

data/supplement/roc_auc_higher.csv SHA-256: f90bc0fb9ffc81b5bf41619b371e932d9856b0cec043efc19431810c9300d27b

cases/supplement-roc_auc_higher/settings.json SHA-256: 16e4464cea8c23547a3e299a69d2259bea78629b6e406e787898a65d0b940f19

cases/supplement-roc_auc_higher/results.json SHA-256: 4a3692a29f5d92ea91c65fe4eb4f3e858c45dbb58433bfb28684bbb95d9ae684

100. ROC / AUC — DeLong belirsizliği

Senaryo: roc_auc_lower · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
auc	0.31272626009468107	0.31272626009468113	—	1e-08	9.9999999999999995e-07
se	0.049362078435546589	0.049362078435546589	—	1e-08	9.9999999999999995e-07
ci_low	0.21597836415896851	0.21597836415896859	—	1e-08	9.9999999999999995e-07
ci_high	0.40947415603039361	0.40947415603039367	—	1e-08	9.9999999999999995e-07
positive_n	57	57	—	1e-08	9.9999999999999995e-07
negative_n	63	63	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "x": "score",
  "y": "event",
  "direction": "lower"
}
```


Veri ve sonuç dosyaları

> data/supplement/roc_auc_lower.csv SHA-256: f90bc0fb9ffc81b5bf41619b371e932d9856b0cec043efc19431810c9300d27b
>
> cases/supplement-roc_auc_lower/settings.json SHA-256: b1c9849142dcb80f50cf8f785902a0174246508d3433c14aec8fb9af99590466
>
> cases/supplement-roc_auc_lower/results.json SHA-256: 1a393ee59237871fccbc739fdae2109458f91f602506d24daf5f1d19997632ca

101. Karma model — Gaussian rastgele kesişim

Senaryo: random_intercept · CiterLab + R · Girdi satırı: 120

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
coefficients/const	0.70816347896504828	0.70816347864348994	—	0.0001	1.0000000000000001e-05
coefficients/x	1.1170670909499356	1.117067111993401	—	0.0001	1.0000000000000001e-05
coefficients/z	-0.534194035810588	-0.53419404676450744	—	0.0001	1.0000000000000001e-05
residual_variance	1.285101111426741	1.2851017165974714	—	0.0001	1.0000000000000001e-05
random_intercept_variance	1.0772599849776823	1.0772569999999999	—	0.0001	1.0000000000000001e-05

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
    "include_plot": false,
    "plot": false,
    "independent": true,
    "confidence": 0.95,
    "y": "y",
    "predictors": [
        "x",
        "z"
        ],
    "subject": "subject"
}
```


Veri ve sonuç dosyaları

> data/supplement/random_intercept.csv SHA-256: b7528182e77739a900278d26bb308e2ccc7af26b87a2bbd18a889606923904ca
>
> cases/supplement-random_intercept/settings.json SHA-256: c4c894f3d3d4f215a2776c6cc68d6fdc133851da2704155549e142c277a9bcc1
>
> cases/supplement-random_intercept/results.json SHA-256: 6e1648ea5754ed36562da9401eb0df1a75f441891d3d46c34fe0d54b8c1201ef

102. Tesadüf blokları — eklemeli model

Senaryo: rcbd · CiterLab + R · Girdi satırı: 60

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
F	0.22658213501779761	0.22658213501779847	—	1e-08	9.9999999999999995e-07
p	0.79832320684102887	0.7983232068410282	—	1e-08	9.9999999999999995e-07
treatment_df	2	2	—	1e-08	9.9999999999999995e-07
error_df	38	38	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
  "include_plot": false,
  "plot": false,
  "independent": true,
  "confidence": 0.95,
  "y": "y",
  "group": "group",
  "subject": "subject"
}
```


Veri ve sonuç dosyaları

> data/supplement/rcbd.csv SHA-256: 612bc86f13b52de664f32ee1eac24fe49fe29d32b2e766c56eba8497f66761c3
>
> cases/supplement-rcbd/settings.json SHA-256: c0351b33e041abc5232f2ff81d07a7a7fcd42d230ea7c603e46d7f657b7fd72f
>
> cases/supplement-rcbd/results.json SHA-256: 5266d1f3a7348f73ac5838b51ac2f1df79185e449ad06d11c0c605380ef6a35c

103. Çoklu sınama — p düzeltmesi

Senaryo: adjust_holm · CiterLab + R · Girdi satırı: 9

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
adjusted_p/0	0.0090000000000000011	0.0090000000000000011	—	1e-08	9.9999999999999995e-07
adjusted_p/1	0.16	0.16	—	1e-08	9.9999999999999995e-07
adjusted_p/2	0.28000000000000003	0.28000000000000003	—	1e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak toleranс	Göreli tolerans
adjusted_p/3	0.30000000000000004	0.30000000000000004	—	1e-08	9.9999999999999995e-07
adjusted_p/4	0.5	0.5	—	1e-08	9.9999999999999995e-07
adjusted_p/5	0.92000000000000004	0.92000000000000004	—	1e-08	9.9999999999999995e-07
adjusted_p/6	1	1	—	1e-08	9.9999999999999995e-07
adjusted_p/7	1	1	—	1e-08	9.9999999999999995e-07
adjusted_p/8	1	1	—	1e-08	9.9999999999999995e-07
rejected/0	1	1	—	1e-08	9.9999999999999995e-07
rejected/1	0	0	—	1e-08	9.9999999999999995e-07
rejected/2	0	0	—	1e-08	9.9999999999999995e-07
rejected/3	0	0	—	1e-08	9.9999999999999995e-07
rejected/4	0	0	—	1e-08	9.9999999999999995e-07
rejected/5	0	0	—	1e-08	9.9999999999999995e-07
rejected/6	0	0	—	1e-08	9.9999999999999995e-07
rejected/7	0	0	—	1e-08	9.9999999999999995e-07
rejected/8	0	0	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"include_plot": false,
"plot": false,
"independent": true,
"confidence": 0.95,
"y": "raw_p",

"adjustment": "holm"

}

Veri ve sonuç dosyaları

data/supplement/adjust_holm.csv SHA-256: 0001a3d5fadb46ca21d9f282d33c804e55fba2169eaa6983d66ad5afa8d43afc

cases/supplement-adjust_holm/settings.json SHA-256: b3d29c13b90aa2a26837058eca7eabeb43d06e7e92d64c5756fd86b9c63aafd9

cases/supplement-adjust_holm/results.json SHA-256: fe966221502618da5255fc7b4bc3d2471d483c3b7cf41dd7c49ecc3b546fdf18

104. Çoklu sınama — p düzeltmesi

Senaryo: adjust_bonferroni · CiterLab + R · Girdi satırı: 9

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak toleranс	Göreli tolerans
adjusted_p/0	0.0090000000000000011	0.0090000000000000011	—	1e-08	9.9999999999999995e-07
adjusted_p/1	0.17999999999999999	0.17999999999999999	—	1e-08	9.9999999999999995e-07
adjusted_p/2	0.35999999999999999	0.35999999999999999	—	1e-08	9.9999999999999995e-07
adjusted_p/3	0.45000000000000001	0.45000000000000001	—	1e-08	9.9999999999999995e-07
adjusted_p/4	0.90000000000000002	0.90000000000000002	—	1e-08	9.9999999999999995e-07
adjusted_p/5	1	1	—	1e-08	9.9999999999999995e-07
adjusted_p/6	1	1	—	1e-08	9.9999999999999995e-07
adjusted_p/7	1	1	—	1e-08	9.9999999999999995e-07
adjusted_p/8	1	1	—	1e-08	9.9999999999999995e-07
rejected/0	1	1	—	1e-08	9.9999999999999995e-07
rejected/1	0	0	—	1e-08	9.9999999999999995e-07
rejected/2	0	0	—	1e-08	9.9999999999999995e-07
rejected/3	0	0	—	1e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak toleranş	Göreli tolerans
rejected/4	0	0	—	1e-08	9.9999999999999995e-07
rejected/5	0	0	—	1e-08	9.9999999999999995e-07
rejected/6	0	0	—	1e-08	9.9999999999999995e-07
rejected/7	0	0	—	1e-08	9.9999999999999995e-07
rejected/8	0	0	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "include_plot": false,
                         "plot": false,
                  "independent": true,
                   "confidence": 0.95,
                          "y": "raw_p",
                   "adjustment": "bonferroni"
}
```


Veri ve sonuç dosyaları

data/supplement/adjust_bonferroni.csv SHA-256: 0001a3d5fadb46ca21d9f282d33c804e55fba2169eaa6983d66ad5afa8d43afc

cases/supplement-adjust_bonferroni/settings.json SHA-256: 77ecd4737bf4f01493ec0f6dfd401ad541aff149b3ac189b63b449ca12140f62

cases/supplement-adjust_bonferroni/results.json SHA-256: a28abe1c2f0f2ad35ff0cfd05240d1fc870b077ccaad38606e3412a4e86ac7ae

105. Çoklu sınama — p düzeltmesi

Senaryo: adjust_fdr_bh · CiterLab + R · Girdi satırı: 9

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak toleranş	Göreli tolerans
adjusted_p/0	0.0090000000000000011	0.0090000000000000011	—	1e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak toleranс	Göreli tolerans
adjusted_p/1	0.090000000000000011	0.089999999999999997	—	1e-08	9.9999999999999995e-07
adjusted_p/2	0.11250000000000002	0.1125	—	1e-08	9.9999999999999995e-07
adjusted_p/3	0.11250000000000002	0.1125	—	1e-08	9.9999999999999995e-07
adjusted_p/4	0.17999999999999999	0.18000000000000002	—	1e-08	9.9999999999999995e-07
adjusted_p/5	0.34500000000000003	0.34500000000000003	—	1e-08	9.9999999999999995e-07
adjusted_p/6	0.59142857142857141	0.59142857142857153	—	1e-08	9.9999999999999995e-07
adjusted_p/7	1	1	—	1e-08	9.9999999999999995e-07
adjusted_p/8	1	1	—	1e-08	9.9999999999999995e-07
rejected/0	1	1	—	1e-08	9.9999999999999995e-07
rejected/1	0	0	—	1e-08	9.9999999999999995e-07
rejected/2	0	0	—	1e-08	9.9999999999999995e-07
rejected/3	0	0	—	1e-08	9.9999999999999995e-07
rejected/4	0	0	—	1e-08	9.9999999999999995e-07
rejected/5	0	0	—	1e-08	9.9999999999999995e-07
rejected/6	0	0	—	1e-08	9.9999999999999995e-07
rejected/7	0	0	—	1e-08	9.9999999999999995e-07
rejected/8	0	0	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"include_plot": false,
"plot": false,

"independent": true,
"confidence": 0.95,
"y": "raw_p",
"adjustment": "fdr_bh"
}

Veri ve sonuç dosyaları

data/supplement/adjust_fdr_bh.csv SHA-256: 0001a3d5fadb46ca21d9f282d33c804e55fba2169eaa6983d66ad5afa8d43afc

cases/supplement-adjust_fdr_bh/settings.json SHA-256: b6da8aa4a9d23223da73050e9bcc3f4440611c4d4de595fc94d9163595af54e9

cases/supplement-adjust_fdr_bh/results.json SHA-256: 997001346186886a9cfcefbca650d5385c578ec3050010c9e8243e13d92dc6fd

106. SEM stüdyosu DFA

Senaryo: cfa · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
DoF	24	24	—	1.0000000000000001e-05	9.9999999999999995e-07
DoF Baseline	36	36	—	1.0000000000000001e-05	9.9999999999999995e-07
chi2	19.574485005492477	19.574485001573692	—	0.0001	9.9999999999999995e-07
chi2 p-value	0.72069885362462749	0.72069885384224042	—	1.0000000000000001e-05	9.9999999999999995e-07
chi2 Baseline	2090.8078809672943	2090.8078809672916	—	0.0001	9.9999999999999995e-07
CFI	1	1	—	1.0000000000000001e-05	9.9999999999999995e-07
TLI	1.0032306049403685	1.0032306049432294	—	1.0000000000000001e-05	9.9999999999999995e-07
RMSEA	0	0	—	1.0000000000000001e-05	9.9999999999999995e-07
GFI	0.98116237630966185	0.98116237615097701	—	1.0000000000000001e-05	9.9999999999999995e-07
AGFI	0.96467945558061596	0.96467945528308185	—	1.0000000000000001e-05	9.9999999999999995e-07
NFI	0.99063783660675864	0.99063783660863303	—	1.0000000000000001e-05	9.9999999999999995e-07
SRMR	0.012649630439577515	0.012649607947039615	—	1.0000000000000001e-05	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
LogLik	-2209.527626274968	-2209.527626273010 4	—	0.0001	9.9999999999999995e-07
AIC	4461.0552525499361	4461.0552525460207	—	0.0001	9.9999999999999995e-07
BIC	4534.1486699401175	4534.1486699362022	—	0.0001	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
    "meanstructure": false,
    "fixed_x": false,
    "likelihood": "normal",
    "sample_covariance_divisor": "N"
}
```


Veri ve sonuç dosyaları

data/sem-all-fit/cfa.csv SHA-256: baaab528b04a1fec74dcaf8d0e538bab8bddd0b5736d07f087f11c0a11c8fb39

data/sem-all-fit/cfa_implied_cov.csv SHA-256: 6abb013cc5d2fde01b0c5d2f31344b5088afeddaceebb0dd7be98801dbfb7d4b

data/sem-all-fit/cfa_sample_cov.csv SHA-256: 5588d113e25252c9bffc2e195c235138dd1765e36824672be1fa462c0851aac6

data/sem-all-fit/sem.csv SHA-256: baaab528b04a1fec74dcaf8d0e538bab8bddd0b5736d07f087f11c0a11c8fb39

data/sem-all-fit/sem_implied_cov.csv SHA-256: bfb2293d88f9ab4cb604b56adc26ede985a9a013c4d7cae186dc914684e820ef

data/sem-all-fit/sem_sample_cov.csv SHA-256: 5588d113e25252c9bffc2e195c235138dd1765e36824672be1fa462c0851aac6

cases/sem-all-fit-cfa/settings.json SHA-256: 10a7affa1679c86edb8189270ae0fefd6eb20a574d1078eaf75a4ca58cbfc1f8

cases/sem-all-fit-cfa/results.json SHA-256: 0f88c1a56f50e3812efa80c357139f562e103f39d4ea7c868f1d3b2f89697194

107. Yapısal eşitlik

Senaryo: sem · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
DoF	24	24	—	1.0000000000000001e-05	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
DoF Baseline	36	36	—	1.0000000000000001e-05	9.9999999999999995e-07
chi2	19.574485003920188	19.574485001555786	—	0.0001	9.9999999999999995e-07
chi2 p-value	0.7206988537119372	0.72069885384323462	—	1.0000000000000001e-05	9.9999999999999995e-07
chi2 Baseline	2090.8078809672943	2090.8078809672916	—	0.0001	9.9999999999999995e-07
CFI	1	1	—	1.0000000000000001e-05	9.9999999999999995e-07
TLI	1.0032306049415163	1.0032306049432425	—	1.0000000000000001e-05	9.9999999999999995e-07
RMSEA	0	0	—	1.0000000000000001e-05	9.9999999999999995e-07
GFI	0.98116235456938306	0.98116236987416139	—	1.0000000000000001e-05	9.9999999999999995e-07
AGFI	0.96467941481759323	0.96467944351405266	—	1.0000000000000001e-05	9.9999999999999995e-07
NFI	0.9906378366075107	0.99063783660864146	—	1.0000000000000001e-05	9.9999999999999995e-07
SRMR	0.012649565423117	0.01264959415163828	—	1.0000000000000001e-05	9.9999999999999995e-07
LogLik	-2209.5276262741818	-2209.5276262730013	—	0.0001	9.9999999999999995e-07
AIC	4461.0552525483636	4461.0552525460025	—	0.0001	9.9999999999999995e-07
BIC	4534.148669938545	4534.148669936184	—	0.0001	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
    "meanstructure": false,
    "fixed_x": false,
    "likelihood": "normal",
    "sample_covariance_divisor": "N"
}
```


Veri ve sonuç dosyaları

data/sem-all-fit/cfa.csv SHA-256: baaab528b04a1fec74dcaf8d0e538bab8bddd0b5736d07f087f11c0a11c8fb39

data/sem-all-fit/cfa_implied_cov.csv SHA-256: 6abb013cc5d2fde01b0c5d2f31344b5088afeddaceebb0dd7be98801dbfb7d4b

data/sem-all-fit/cfa_sample_cov.csv SHA-256: 5588d113e25252c9bffc2e195c235138dd1765e36824672be1fa462c0851aac6

data/sem-all-fit/sem.csv SHA-256: baaab528b04a1fec74dcaf8d0e538bab8bddd0b5736d07f087f11c0a11c8fb39

data/sem-all-fit/sem_implied_cov.csv SHA-256: bfb2293d88f9ab4cb604b56adc26ede985a9a013c4d7cae186dc914684e820ef

data/sem-all-fit/sem_sample_cov.csv SHA-256: 5588d113e25252c9bffc2e195c235138dd1765e36824672be1fa462c0851aac6

cases/sem-all-fit-sem/settings.json SHA-256: 10a7affa1679c86edb8189270ae0fefd6eb20a574d1078eaf75a4ca58cbfc1f8

cases/sem-all-fit-sem/results.json SHA-256: cbdd6be6d5b4d0cac1c03307e1abfcdaaf51aa38608ff90a5b857939a3e4b293

108. Ölçek geliştirme

Senaryo: scale_fixture · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
chi2	27.141270288866792	27.141270271731344	—	0.0001	9.999999999999995e-07
chi2 p-value	0.10140530801595860	0.10140530840473672	—	1.0000000000000001e-05	9.999999999999995e-07
DoF	19	19	—	1.0000000000000001e-05	9.999999999999995e-07
CFI	0.995875263018290055	0.995875263026972050	—	1.0000000000000001e-05	9.999999999999995e-07
TLI	0.993921440237480750	0.993921440250274620	—	1.0000000000000001e-05	9.999999999999995e-07
RMSEA	0.032729493959590850	0.032729493925146923	—	1.0000000000000001e-05	9.999999999999995e-07
SRMR	0.027172195896621270	0.027172199100129791	—	1.0000000000000001e-05	9.999999999999995e-07
RMSEA_CI_lower	0	0	—	1.0000000000000001e-05	9.999999999999995e-07
RMSEA_CI_upper	0.062881190344410420	0.062881200368920823	—	1.0000000000000001e-05	9.999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{

"confidence_level": 0.95,

"n": 400,
"likelihood": "normal",
"meanstructure": false,
"fixed_x": false
}

Veri ve sonuç dosyaları

data/scale-fit/scale_450.csv SHA-256:
452c80b4e610e52eaab76e99c0eb37ed4c7b805acd183d5b92af31945306818b

data/scale-fit/scale_450_parameter_estimates.csv SHA-256:
de839274ffb58816bfad18fb639ecf73407f9803d6b5b8b525933fe04d44a127

data/scale-fit/scale_fixture.csv SHA-256:
f0bad43aff566e9715cac4d70bdb40338da78ace1c25d5b492c4338aba33254c

data/scale-fit/scale_fixture_parameter_estimates.csv SHA-256:
e3828488b9ad032360f08577f4d1b61fdac91170d244c9ba02f10283b7a4d5f6

cases/scale-fit-scale_fixture/settings.json SHA-256:
2f6f5499e5a00f2c166b2f1f0555e9bf3ea885d87c2f03b25bacbaff113c3ac9

cases/scale-fit-scale_fixture/results.json SHA-256:
e2b3af7db20906530b586a249622502b0cec7311391a3583dc7fd15ff371d9f2

109. Ölçek geliştirme

Senaryo: scale_450 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
chi2	408.25060011860029	408.25060011725259	—	0.0001	9.999999999999995e-07
chi2 p-value	0.40408271712366967	0.40408271714188415	—	1.0000000000000001e-05	9.999999999999995e-07
DoF	402	402	—	1.0000000000000001e-05	9.999999999999995e-07
CFI	0.99899666145906629	0.99899666145928256	—	1.0000000000000001e-05	9.999999999999995e-07
TLI	0.99891429784749708	0.99891429784773111	—	1.0000000000000001e-05	9.999999999999995e-07
RMSEA	0.0058781623193971217	0.0058781623187634203	—	1.0000000000000001e-05	9.999999999999995e-07
SRMR	0.031439891482050224	0.031439902848356953	—	1.0000000000000001e-05	9.999999999999995e-07
RMSEA_CI_lower	0	0	—	1.0000000000000001e-05	9.999999999999995e-07
RMSEA_CI_upper	0.019449588996147665	0.019449589020930809	—	1.0000000000000001e-05	9.999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"confidence_level": 0.95,
"n": 450,
"likelihood": "normal",
"meanstructure": false,
"fixed_x": false
}

Veri ve sonuç dosyaları

data/scale-fit/scale_450.csv SHA-256: 452c80b4e610e52eaab76e99c0eb37ed4c7b805acd183d5b92af31945306818b

data/scale-fit/scale_450_parameter_estimates.csv SHA-256: de839274ffb58816bfad18fb639ecf73407f9803d6b5b8b525933fe04d44a127

data/scale-fit/scale_fixture.csv SHA-256: f0bad43aff566e9715cac4d70bdb40338da78ace1c25d5b492c4338aba33254c

data/scale-fit/scale_fixture_parameter_estimates.csv SHA-256: e3828488b9ad032360f08577f4d1b61fdac91170d244c9ba02f10283b7a4d5f6

cases/scale-fit-scale_450/settings.json SHA-256: da28c0ec8ffbe79d4455ca891a8ad4cb4614c82136fbc0c8fa6c8527a7d0728d

cases/scale-fit-scale_450/results.json SHA-256: f8ace360b1d44bfeb54d02b1c04da10cf87427491a3ce46ce06199f9b8c30d4a

110. Zaman serisi tanıları — ADF / KPSS / ACF

Senaryo: ts_diagnostics · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
adf/statistic	-5.9326804039134613	-5.9326804039133929	—	1e-08	9.9999999999999995e-07
adf/p	2.3602710641248026e-07	2.3602710641256512e-07	—	1e-08	9.9999999999999995e-07
adf/lags	0	0	—	1e-08	9.9999999999999995e-07
kpss/statistic	0.18338383666113445	0.18338383666113448	—	1e-08	9.9999999999999995e-07
kpss/p	0.10000000000000001	0.10000000000000001	—	1e-08	9.9999999999999995e-07
kpss/lags	5	5	—	1e-08	9.9999999999999995e-07
acf/1	0.59381592281119266	0.59381592281119322	—	1e-08	9.9999999999999995e-07
pacf/1	0.59381592281119278	0.59381592281119289	—	1e-08	9.9999999999999995e-07

Ölçüt	CiterLab	R	SPSS	Mutlak toleranс	Göreli tolerans
acf/2	0.31963600699928035	0.3196360069992808	—	1e-08	9.9999999999999995e-07
pacf/2	-0.050945670530724824	-0.050945670530724782	—	1e-08	9.9999999999999995e-07
acf/3	0.08630229741620872	0.086302297416208817	—	1e-08	9.9999999999999995e-07
pacf/3	-0.12841836120223132	-0.12841836120223149	—	1e-08	9.9999999999999995e-07
acf/4	-0.10236485611537603	-0.1023648561153761	—	1e-08	9.9999999999999995e-07
pacf/4	-0.1397267704931055	-0.13972677049310553	—	1e-08	9.9999999999999995e-07
acf/5	-0.20895939815771589	-0.20895939815771611	—	1e-08	9.9999999999999995e-07
pacf/5	-0.086750455491648629	-0.086750455491648573	—	1e-08	9.9999999999999995e-07
acf/6	-0.23758291526367667	-0.23758291526367695	—	1e-08	9.9999999999999995e-07
pacf/6	-0.046698528231761766	-0.04669852823176189	—	1e-08	9.9999999999999995e-07
acf/7	-0.20878060314550495	-0.20878060314550514	—	1e-08	9.9999999999999995e-07
pacf/7	-0.024169286122226949	-0.024169286122226671	—	1e-08	9.9999999999999995e-07
acf/8	-0.075624697755428655	-0.07562469775542871	—	1e-08	9.9999999999999995e-07
pacf/8	0.10311647926985769	0.10311647926985754	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları

{}

Veri ve sonuç dosyaları

> data/econometric-diagnostics/panel.csv SHA-256: 8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab
>
> data/econometric-diagnostics/series.csv SHA-256: 6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb
>
> cases/econometric-diagnostics-ts_diagnostics/settings.json SHA-256: 44136fa355b3678a1146ad16f7e8649e94fb4fc21fe77e8310c060f61caaff8a
>
> cases/econometric-diagnostics-ts_diagnostics/results.json SHA-256: 543e8efbea6abebfe5720268c9d3b00a6871e2cbd61d06ec319846a45cde4d15

111. Panel — klasik Hausman testi

Senaryo: panel_hausman · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
hausman_statistic	105.46381032152833	105.46381032152706	—	1e-08	9.9999999999999995e-07
hausman_df	2	2	—	1e-08	9.9999999999999995e-07
hausman_p	1.2555226977410565e-23	1.2555226977418524e-23	—	1e-08	9.9999999999999995e-07
fe/x0	1.5061498205105657	1.5061498205105655	—	1e-08	9.9999999999999995e-07
fe/x1	-0.67266865543717436	-0.67266865543717413	—	1e-08	9.9999999999999995e-07
re/x0	1.739730302146262	1.73973030214626	—	1e-08	9.9999999999999995e-07
re/x1	-0.64577225339226452	-0.64577225339226418	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{}

Veri ve sonuç dosyaları

data/econometric-diagnostics/panel.csv SHA-256: 8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometric-diagnostics/series.csv SHA-256: 6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometric-diagnostics-panel_hausman/settings.json SHA-256: 44136fa355b3678a1146ad16f7e8649e94fb4fc21fe77e8310c060f61caaff8a

cases/econometric-diagnostics-panel_hausman/results.json SHA-256: 4f18b262c58c9be923902d004d2f8fbe5bd79cb6990c975acd07f9ddf8d0df0d

112. Genel / genelleştirilmiş doğrusal model

Senaryo: normal · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Constant) · B	0.19748117720828784	0.19748117720828684	0.19748117720829	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · SE	0.10886415880704674	0.10886415880704677	0.10886415880705	1.9999999999999999e-06	2.0000000000000002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Constant) · p	0.070945396649527412	0.070945396649528827	0.070945396649522999	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · lo	-0.016988493548320827	-0.016988493548321743	-0.016988493548269	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · hi	0.41195084796489965	0.41195084796489545	0.41195084796483999	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.32002483820218341	0.32002483820218586	0.32002483820217997	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.15314613816420139	0.15314613816420153	0.153146138164 2	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	0.037718562903240029	0.037718562903238752	0.037718562903237003	1.9999999999999999e-06	2.0000000000000002e-05
v0 · lo	0.018316707724291781	0.018316707724294112	0.018316707724366998	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	0.62173296868007499	0.62173296868007766	0.62173296868000005	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	-0.34565386706497431	-0.34565386706497397	-0.34565386706496998	1.9999999999999999e-06	2.0000000000000002e-05
v1 · SE	0.152950377176909040	0.152950377176909150	0.15295037717691001	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	0.024739404724201660	0.024739404724201913	0.024739404724200002	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.64697633531067078	-0.64697633531067045	-0.64697633531059995	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	-0.04433139881927789	-0.04433139881927750 1	-0.04433139881935099 8	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.36266441393497451	0.36266441393497428	0.36266441393497001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.063519244714068238	0.063519244714068238	0.06351924471406 8002	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	3.3885102846084106e-08	3.3885102846084583e-08	3.388510284608 4e-08	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.23752725538970626	0.23752725538970609	0.23752725538974001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.48780157248024275	0.48780157248024247	0.48780157248021	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{

"configuration": {

```
    "y": "normal",
    "model_family": "normal",
    "factors": [
      "g"
    ],
    "predictors": [
      "x"
    ],
    "event": "1"
  },
  "family": "normal",
  "link": "identity",
  "columns": [
    "y",
    "v0",
    "v1",
    "v2"
  ],
  "predictor_columns": [
    "v0",
    "v1",
    "v2"
  ],
  "term_names": [
    "Intercept",
    "C(f0)[T.B]",
    "C(f0)[T.C]",
    "x0"
  ],
  "csv_header": false,
  "csv_separator": ","
}
```


Veri ve sonuç dosyaları

data/glm-threeway/normal.csv SHA-256:
5dd12a3088d35df33848d1d975f912d8658bcfe262b9ac1418292795a1dbce89

cases/glm-threeway-normal/settings.json SHA-256:
3fe1071efde86e164f4002f15cc8b67cb4042612f3bf0ee86157716e446af260

cases/glm-threeway-normal/results.json SHA-256:
582d6ec2a9b9802acb36c0be1bd43048aeaa23dc2a2fb620ed65c694cd38680c

113. Genel / genelleştirilmiş doğrusal model

Senaryo: lognormal · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Constant) · B	0.25755285514254711	0.25755285514254617	0.25755285514255	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · SE	0.043713838553437565	0.043713838553437571	0.043713838553438002	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · p	1.3088833912583512e-08	1.3088833912585006e-08	1.3088833912584e-08	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · lo	0.17143367078656196	0.17143367078656108	0.17143367078658001	1.9999999999999999e-06	2.0000000000000002e-05
(Constant) · hi	0.34367203949853226	0.34367203949853126	0.34367203949851	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.24695713761538443	0.24695713761538685	0.24695713761539001	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.061495037780597839	0.061495037780597894	0.061495037780597998	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	7.9617258862175802e-05	7.961725886216454e-05	7.9617258862165e-05	1.9999999999999999e-06	2.0000000000000002e-05
v0 · lo	0.12580780205356657	0.12580780205356806	0.12580780205360001	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	0.36810647317720313	0.36810647317720563	0.36810647317716999	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	-0.36036701819477668	-0.36036701819477651	-0.36036701819478001	1.9999999999999999e-06	2.0000000000000002e-05
v1 · SE	0.061416430971090161	0.061416430971090202	0.061416430971090001	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	1.4868005428824696e-08	1.4868005428825323e-08	1.4868005428825001e-08	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.48136149308675624	-0.48136149308675608	-0.48136149308672999	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	-0.23937254330279714	-0.23937254330279695	-0.2393725433028 3	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.33344897054023881	0.33344897054023903	0.33344897054023998	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.025505823393983166	0.025505823393983166	0.025505823393982999	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	9.6180453073109947e-30	9.6180453073103193e-30	9.6180453073116e-30	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.28320079331067582	0.28320079331067605	0.28320079331068998	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.38369714776980179	0.38369714776980202	0.38369714776979003	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
  "configuration": {
    "y": "lognormal",
    "model_family": "lognormal",
    "factors": [
      "g"
    ],
    "predictors": [
      "x"
    ],
    "event": "1"
  },
  "family": "lognormal",
  "link": "identity",
  "columns": [
    "y",
    "v0",
    "v1",
    "v2"
  ],
  "predictor_columns": [
    "v0",
    "v1",
    "v2"
  ],
  "term_names": [
    "Intercept",
    "C(f0)[T.B]",
    "C(f0)[T.C]",
    "x0"
  ],
  "csv_header": false,
  "csv_separator": ","
}
```


Veri ve sonuç dosyaları

data/glm-threeway/lognormal.csv SHA-256: 20b0f84036d84223672398e12a87adca8716d851ce062edea91789b31cbb7abc

cases/glm-threeway-lognormal/settings.json SHA-256: eed8130fb009d3837087705c10d3bcf811059656846d30e80d37d8ac05a33eae

cases/glm-threeway-lognormal/results.json SHA-256: 7f8c2d76a35f70a0c676341bede3fa25e5db155dc60805adb9df5fe9d06ee8e3

114. Genel / genelleştirilmiş doğrusal model

Senaryo: binomial · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · B	-0.3229675228625728	-0.32296752286213087	-0.32296752286257002	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · SE	0.23579615401961421	0.23579609881545233	0.23579615401963999	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · p	0.17078383906138006	0.17078373891948231	0.17078383906142999	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · lo	-0.78511949243407608	-0.78511938423546501	-0.7851194924341414003	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · hi	0.13918444670893054	0.13918433851120326	0.13918444670899	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.73613066347548362	0.73613066347449629	0.73613066347547995	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.3314073148386818	0.33140723740885536	0.33140731483871999	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	0.026335633693734397	0.026335598561540566	0.026335633693753999	1.9999999999999999e-06	2.0000000000000002e-05
v0 · lo	0.08658426217854065	0.08658441393722602	0.08658426217845799 4	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	1.3856770647724266	1.3856769130117681	1.3856770647725001	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	0.43755101845962752	0.43755101845887373	0.43755101845963001	1.9999999999999999e-06	2.0000000000000002e-05
v1 · SE	0.33127067081964989	0.33127059171560 88	0.33127067081969003	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	0.18655928421231127	0.18655917902408389	0.18655928421237	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.21172756548131011	-0.21172741044099214	-0.21172756548138999	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	1.0868296024005653	1.0868294473587397	1.0868296024007	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.54300028883075635	0.54300028882990758	0.54300028883076001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.14376442292074579	0.14376435483567487	0.14376442292078001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	0.000158719588122317791	0.000158718418466278395	0.00015871958812381	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.26122719764790997	0.26122733109134816	0.26122719764784003	1.9999999999999999e-06	2.0000000000000002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
v2 · hi	0.82477338001360279	0.82477324656846696	0.82477338001367995	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
  "configuration": {
    "y": "binary",
    "model_family": "binomial",
    "factors": [
      "g"
      ],
    "predictors": [
      "x"
      ],
    "event": "1"
    },
  "family": "binomial",
  "link": "logit",
  "columns": [
    "y",
    "v0",
    "v1",
    "v2"
    ],
  "predictor_columns": [
    "v0",
    "v1",
    "v2"
    ],
  "term_names": [
    "Intercept",
    "C(f0)[T.B]",
    "C(f0)[T.C]",
    "x0"
    ],
  "csv_header": false,
  "csv_separator": ","
}
```


Veri ve sonuç dosyaları

> data/glm-threeway/binomial.csv SHA-256: c6484f140175164005b95e2749971f6fe0727c1342a8cf2368e062acbdeec579

cases/glm-threeway-binomial/settings.json SHA-256: cb68c4a8005e7adef02e7a4326e6449fb27c62257eec0adde3de505e26b18cc5

cases/glm-threeway-binomial/results.json SHA-256: 54e460793d85859ef17139acfde678e2f82688acc23c82bce3e21b944b338986

115. Genel / genelleştirilmiş doğrusal model

Senaryo: probit · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · B	-0.20130273517647573	-0.20130273202557264	-0.20130273510353	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · SE	0.14499430623156065	0.14499430225900176	0.1449943061351	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · p	0.16503072442817213	0.16503071946504869	0.16503072430016	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · lo	-0.48548635335370616	-0.48548634241673061	-0.48548635309169003	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · hi	0.08288088300075469	0.08288087836558533 1	0.082880882884629997	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.45180288158639531	0.45180290280793151	0.45180288207204	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.20375014987699472	0.20375013602675063	0.20375014955390999	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	0.02659332392655987 9	0.02659330652562932 5	0.026593323523796002	1.9999999999999999e-06	2.0000000000000002e-05
v0 · lo	0.05245992598284754 4	0.05245997435036342 5	0.052459927101725	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	0.85114583718994308	0.85114583126549959	0.85114583704236002	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	0.26815317182626996	0.26815317393614285	0.26815317190135002	1.9999999999999999e-06	2.0000000000000002e-05
v1 · SE	0.20367572032096359	0.20367571257844 5	0.20367572013412	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	0.18798308227075855	0.18798306201101075	0.18798308174205	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.13104390452807152	-0.13104388724314092	-0.13104390408677999	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	0.66735024818061 15	0.66735023511542657	0.66735024788948005	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.33466412848102467	0.33466413670636336	0.33466412865638001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.08680269776386 1875	0.08680268758684126	0.086802697522131003	1.9999999999999999e-06	2.0000000000000002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
v2 · p	0.00011551330927835597	0.00011551305107651105	0.00011551330325429	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.16453396710293991	0.1645339952748725	0.16453396775208001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.50479428985910946	0.50479427813785427	0.50479428956067995	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
  "configuration": {
    "y": "binary",
    "model_family": "binomial",
    "factors": [
      "g"
      ],
    "predictors": [
      "x"
      ],
    "event": "1",
    "link": "probit"
    },
  "family": "binomial",
  "link": "probit",
  "columns": [
    "y",
    "v0",
    "v1",
    "v2"
    ],
  "predictor_columns": [
    "v0",
    "v1",
    "v2"
    ],
  "term_names": [
    "Intercept",
    "C(f0)[T.B]",
    "C(f0)[T.C]",
    "x0"
    ],
  "csv_header": false,
```

"csv_separator": ","

}

Veri ve sonuç dosyaları

data/glm-threeway/probit.csv SHA-256: c6484f140175164005b95e2749971f6fe0727c1342a8cf2368e062acbdeec579

cases/glm-threeway-probit/settings.json SHA-256: 7109c74e9ffedbf0402d997ed885165a5f60d33c96a3eeff3cd8e387674d21e4

cases/glm-threeway-probit/results.json SHA-256: 4884716230ff544be9c4f93308b2c1b54d0a9dd43dcebd9cfd24919c1291c358

116. Genel / genelleştirilmiş doğrusal model

Senaryo: cloglog · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · B	-0.620088931846 99498	-0.620088918961 36364	-0.620088931805 17	1.9999999999999 999e-06	2.0000000000000 002e-05
(Intercept) · SE	0.1789816665707 1649	0.1789816793369 2138	0.1789816678916 4999	1.9999999999999 999e-06	2.0000000000000 002e-05
(Intercept) · p	0.0005311414747 8772352	0.0005311421049 5306671	0.0005311415257 4257995	1.9999999999999 999e-06	2.0000000000000 002e-05
(Intercept) · lo	-0.970886552218 55591	-0.970886564354 22627	-0.970886554765 70995	1.9999999999999 999e-06	2.0000000000000 002e-05
(Intercept) · hi	-0.269291311475 43411	-0.269291273568 50102	-0.269291308844 61999	1.9999999999999 999e-06	2.0000000000000 002e-05
v0 · B	0.4891380297068 4228	0.4891379529240 2196	0.4891380294576 2003	1.9999999999999 999e-06	2.0000000000000 002e-05
v0 · SE	0.2356325944486 6175	0.2356325932813 9702	0.2356325943279 0001	1.9999999999999 999e-06	2.0000000000000 002e-05
v0 · p	0.0379077837042 2189	0.0379078129001 06107	0.0379077837036 46003	1.9999999999999 999e-06	2.0000000000000 002e-05
v0 · lo	0.0273066310037 32595	0.0273065565087 09168	0.0273066309912 06001	1.9999999999999 999e-06	2.0000000000000 002e-05
v0 · hi	0.9509694284099 5191	0.9509693493393 3475	0.9509694279240 3005	1.9999999999999 999e-06	2.0000000000000 002e-05
v1 · B	0.3213036741030 959	0.3213036725615 8293	0.3213036740981 0001	1.9999999999999 999e-06	2.0000000000000 002e-05
v1 · SE	0.2416616666275 0502	0.2416616850989 1756	0.2416616685388 6001	1.9999999999999 999e-06	2.0000000000000 002e-05
v1 · p	0.1836633001941 6377	0.1836633358000 0296	0.1836633036677 5999	1.9999999999999 999e-06	2.0000000000000 002e-05
v1 · lo	-0.152344488930 73904	-0.152344526675 5552	-0.152344492681 94	1.9999999999999 999e-06	2.0000000000000 002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
v1 · hi	0.79495183713693085	0.79495187179872107	0.79495184087812998	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.35574712156423649	0.35574706315941035	0.35574712137469	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.097570258342177224	0.097570266548777364	0.097570259191808006	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	0.00026629070582319294	0.00026629164340912225	0.00026629074071833999	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.16451292925130037	0.16451285476184085	0.16451292739650999	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.54698131387717264	0.54698127155697984	0.54698131535287997	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
  "configuration": {
    "y": "binary",
    "model_family": "binomial",
    "factors": [
      "g"
      ],
    "predictors": [
      "x"
      ],
    "event": "1",
    "link": "cloglog"
    },
  "family": "binomial",
  "link": "cloglog",
  "columns": [
    "y",
    "v0",
    "v1",
    "v2"
    ],
  "predictor_columns": [
    "v0",
    "v1",
    "v2"
    ],
  "term_names": [
```

"Intercept",
"C(f0)[T.B]",
"C(f0)[T.C]",
"x0"
],
"csv_header": false,
"csv_separator": ","
}

Veri ve sonuç dosyaları

> data/glm-threeway/cloglog.csv SHA-256: c6484f140175164005b95e2749971f6fe0727c1342a8cf2368e062acbdeec579
>
> cases/glm-threeway-cloglog/settings.json SHA-256: ba5c8ee167ec66d297b5da51b8817eef684e6fdad757803a961a3bf4ad7da709
>
> cases/glm-threeway-cloglog/results.json SHA-256: df535cdab76fe8f7bf2c161005273fb8a50f87d1d9e76accbe5d87d238c21535

117. Genel / genelleştirilmiş doğrusal model

Senaryo: poisson · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · B	0.28943324437743423	0.28943324437743478	0.28943324447277002	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · SE	0.086439603249340205	0.086439603254957717	0.086439603251156003	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · p	0.00081283418495983176	0.00081283418559803988	0.00081283418193101996	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · lo	0.120014735170796	0.120014735159787 53	0.12001473526257	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · hi	0.45885175358407249	0.45885175359508201	0.45885175368296999	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.2133008979407417	0.21330089794074211	0.21330089790382001	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.1162134611102357	0.11621346112126746	0.11621346111784001	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	0.066442989360514057	0.066442989386309007	0.066442989425328003	1.9999999999999999e-06	2.0000000000000002e-05
v0 · lo	-0.014473300354066493	-0.014473300375687864	-0.014473300405888	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	0.44107509623554986	0.44107509625717212	0.44107509621353003	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	-0.21474803144357718	-0.21474803144357688	-0.21474803125364	1.9999999999999999e-06	2.0000000000000002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
v1 · SE	0.12816392226846143	0.12816392227404513	0.12816392226279	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	0.093821824831735443	0.093821824846044885	0.093821825107682	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.46594470320715259	-0.46594470321809611	-0.46594470300610003	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	0.036448640319998227	0.036448640330942333	0.036448640498809998	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.37531469168540077	0.37531469168539991	0.37531469157683001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.050258301124696612	0.050258301128618996	0.050258301125123001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	8.1599057642157755e-14	8.1599058003479 59e-14	8.1599061275277998e-14	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.27681023155682649	0.27681023154913714	0.27681023144742001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.47381915181397505	0.47381915182166107	0.47381915170624	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
    "configuration": {
        "y": "poisson",
        "model_family": "poisson",
        "factors": [
            "g"
            ],
        "predictors": [
            "x"
            ],
        "event": "1",
        "exposure": "exposure"
            },
    "family": "poisson",
        "link": "log",
        "columns": [
            "y",
            "v0",
            "v1",
            "v2",
            "off"
```

```
    ],
    "predictor_columns": [
      "v0",
      "v1",
      "v2"
    ],
    "term_names": [
      "Intercept",
      "C(f0)[T.B]",
      "C(f0)[T.C]",
      "x0"
    ],
    "csv_header": false,
    "csv_separator": ","
}
```


Veri ve sonuç dosyaları

data/glm-threeway/poisson.csv SHA-256: afa6815aa414722498efd74e54d23c5dd61c610ca244584132ee80e382a48323

cases/glm-threeway-poisson/settings.json SHA-256: 0579e1e401b3af22708d8eeaab6f5879bee5ce29964f7cd7e37ec837f81dc9e9

cases/glm-threeway-poisson/results.json SHA-256: ee7502207d9f4262cdf25c97159fdab5cd318d01a5a53c1c407b31864907129c

118. Genel / genelleştirilmiş doğrusal model

Senaryo: poisson_robust · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · B	0.2894332443774343423	0.28943324437743478	0.28943324447277002	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · SE	0.0926547740269904 05	0.09265477402699035	0.092654774018205002	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · p	0.0017854314916861 12	0.00178543149168606 35	0.00178543148364579 99	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · lo	0.1078332242888 3579	0.10783322428883652	0.10783322440139	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · hi	0.4710332644660 3266	0.47103326446603305	0.47103326454415001	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.2133008979407417	0.21330089794074211	0.21330089790382001	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.1207523627301978	0.12075236273019767	0.12075236272147	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	0.0773233166859 60902	0.07732331668596 0056	0.07732331671581 0997	1.9999999999999999e-06	2.0000000000000002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
v0 · lo	-0.023369384058562676	-0.023369384058561982	-0.023369384078372999	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	0.4499711799400461	0.4499711799400 4621	0.4499711798860 1998	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	-0.21474803144357718	-0.21474803144357688	-0.21474803125364	1.9999999999999999e-06	2.0000000000000002e-05
v1 · SE	0.13912011963693144	0.13912011963693147	0.13912011961161999	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	0.12268140601761608	0.12268140601761665	0.1226814062804 7	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.48741845545686635	-0.48741845545686602	-0.48741845521732002	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	0.057922392569711989	0.057922392569712294	0.057922392710030003	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.37531469168540077	0.3753146916853991	0.37531469157683001	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.051265756568552014	0.051265756568551979	0.051265756561612003	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	2.461982696213947e-13	2.4619826962144695e-13	2.4619829829333998e-13	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.27483565517084113	0.27483565517083952	0.27483565507586999	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.47579372819996041	0.47579372819995869	0.47579372807779002	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                                "configuration": {
                                    "y": "poisson",
                                "model_family": "poisson",
                                    "factors": [
                                        "g"
                                    ],
                                    "predictors": [
                                        "x"
                                    ],
                                    "event": "1",
                                "exposure": "exposure",
                                "covariance": "robust"
                                },
                            "family": "poisson",
```

```
                "link": "log",
                "columns": [
                    "y",
                    "v0",
                    "v1",
                    "v2",
                    "off"
                ],
            "predictor_columns": [
                    "v0",
                    "v1",
                    "v2"
                ],
              "term_names": [
                    "Intercept",
                    "C(f0)[T.B]",
                    "C(f0)[T.C]",
                    "x0"
                ],
           "csv_header": false,
            "csv_separator": ","
}
```


Veri ve sonuç dosyaları

data/glm-threeway/poisson_robust.csv SHA-256: afa6815aa414722498efd74e54d23c5dd61c610ca244584132ee80e382a48323

cases/glm-threeway-poisson_robust/settings.json SHA-256: 463932cedbf9b5558447ebc155fe9fe9480640c48a8b03aca8045b92e8d223cf

cases/glm-threeway-poisson_robust/results.json SHA-256: 6440880720521e5c540cae553438253a5a0b0c292aa0119d6643160e915623c5

119. Genel / genelleştirilmiş doğrusal model

Senaryo: gamma · CiterLab + R + SPSS · Girdi satırı: 240

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · B	0.16526897904272847	0.16526898982455143	0.16526897841671001	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · SE	0.05108758964450858588	0.05108758957385076761	0.05108758964857500 2	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · p	0.00121637505943924 72472	0.00121637414128488 21821	0.00121637511273396	1.9999999999999999e-06	2.0000000000000002e-05
(Intercept) · lo	0.06513914328253021 8218	0.06513915420283999	0.06513914264854299 4	1.9999999999999999e-06	2.0000000000000002e-05

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
(Intercept) · hi	0.26539881480292671	0.26539882544626286	0.26539881418487998	1.9999999999999999e-06	2.0000000000000002e-05
v0 · B	0.25389965714716589	0.25389962834632662	0.25389965882993998	1.9999999999999999e-06	2.0000000000000002e-05
v0 · SE	0.07186816256060628285	0.07186816246125747476	0.071868162566377	1.9999999999999999e-06	2.0000000000000002e-05
v0 · p	0.00041110091445192609	0.00041110152999076886	0.000411100878048063	1.9999999999999999e-06	2.0000000000000002e-05
v0 · lo	0.11304064689320967	0.11304061828718885	0.11304064856477	1.9999999999999999e-06	2.0000000000000002e-05
v0 · hi	0.39475866740112209	0.39475863840546477	0.39475866909510998	1.9999999999999999e-06	2.0000000000000002e-05
v1 · B	-0.18497243913321665	-0.18497243132846752	-0.18497243958987	1.9999999999999999e-06	2.0000000000000002e-05
v1 · SE	0.07177629617325398	0.07177629607398213	0.071776296178966997	1.9999999999999999e-06	2.0000000000000002e-05
v1 · p	0.00996421731972112 03	0.00996422035157069 55	0.009964217142 2305009	1.9999999999999999e-06	2.0000000000000002e-05
v1 · lo	-0.32565139457647463	-0.32565138657715631	-0.32565139504432	1.9999999999999999e-06	2.0000000000000002e-05
v1 · hi	-0.04429348368995 8696	-0.04429347607977 8737	-0.04429348413 5414	1.9999999999999999e-06	2.0000000000000002e-05
v2 · B	0.38170523112426918	0.38170525507313213	0.38170522974857002	1.9999999999999999e-06	2.0000000000000002e-05
v2 · SE	0.02980820450037 2117	0.02980820445914 5251	0.029808204502 745	1.9999999999999999e-06	2.0000000000000002e-05
v2 · p	1.52985345707604 7e-37	1.52983727375145 22e-37	0	1.9999999999999999e-06	2.0000000000000002e-05
v2 · lo	0.32328222385973 51	0.32328224788940119	0.32328222247938998	1.9999999999999999e-06	2.0000000000000002e-05
v2 · hi	0.44012823838880327	0.44012826225686308	0.44012823701775999	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"configuration": {
"y": "gamma",
"model_family": "gamma",
"factors": [
"g"

```
                ],
                "predictors": [
                    "x"
                ],
                "event": "1"
            },
            "family": "gamma",
            "link": "log",
            "columns": [
                "y",
                "v0",
                "v1",
                "v2"
            ],
            "predictor_columns": [
                "v0",
                "v1",
                "v2"
            ],
            "term_names": [
                "Intercept",
                "C(f0)[T.B]",
                "C(f0)[T.C]",
                "x0"
            ],
            "csv_header": false,
            "csv_separator": ","
}
```


Veri ve sonuç dosyaları

> data/glm-threeway/gamma.csv SHA-256: 980e2836213c21853e3a0457881edb8f42fd8d823fabb052135a8bbf0ec22510
>
> cases/glm-threeway-gamma/settings.json SHA-256: 810d1e00d1b3462e97b48867327d8b1922edf9c0a5690dea74149e14b3134e70
>
> cases/glm-threeway-gamma/results.json SHA-256: 7444843b4791064add8db14a3559535529e933bd7be249ab43d85488e741fe72

120. Cox Regresyon

Senaryo: unique · CiterLab + R + SPSS · Girdi satırı: 160

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
x · B	0.21575602093197699	0.2157560208413245	0.2157560208413001	1.9999999999999999e-06	2.0000000000000002e-05
x · HR	1.2407996129347152	1.2407996128222336	1.2407996128222001	1.9999999999999999e-06	2.0000000000000002e-05
x · SE	0.098994244486719937	0.098994244485243049	0.098994244485242994	1.9999999999999999e-06	2.0000000000000002e-05
x · p	0.029295995130431286	0.029295995195974912	0.029295995195974998	1.9999999999999999e-06	2.0000000000000002e-05
z · B	-0.35625292897835759	-0.3562529289423001	-0.35625292894229998	1.9999999999999999e-06	2.0000000000000002e-05
z · HR	0.70029547281485127	0.70029547284010218	0.70029547284009996	1.9999999999999999e-06	2.0000000000000002e-05
z · SE	0.098031313087645733	0.098031313087659305	0.09803131308765 9	1.9999999999999999e-06	2.0000000000000002e-05
z · p	0.00027898208177146925	0.00027898208216995497	0.00027898208216996001	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                                                  "configuration":                                  {
                                                        "test":                                  "cox",
                                                        "var1":                                  "time",
                                                   "event_var":                                  "event",
                                                   "multi_vars":                                  [
                                                                                                  "x",
                                                                                                  "z"
                                                                                                  ],
                                                       "alpha":                                  0.05,
                                                "include_plot":                                  false,
                                            "assumption_auto_select":                            false
                                                                                                  },
                                                  "input_rows":                                    160,
                                                "complete_rows":                                   160,
        "ties":  "Breslow  (statsmodels  PHReg  default;  SPSS  COXREG  default)",
                                                  "csv_header":                                    true,
                                                  "csv_separator":                                 ","
}
```

Veri ve sonuç dosyaları

> data/cox-threeway/unique.csv SHA-256: 03801eb68709eff4eac5e04b4685b439db64801cdff0f96142f8e0ac599d8cc3
>
> cases/cox-threeway-unique/settings.json SHA-256: 9e77bffcb6e265ae4e926bf4988ca144ca16c239dc54c44197b84dbb8d0801a1
>
> cases/cox-threeway-unique/results.json SHA-256: a007d651ed103907822f23b67f79553c6cdfc63c7f31cce2ea8243957f70cba0

121. Cox Regresyon

Senaryo: tied · CiterLab + R + SPSS · Girdi satırı: 160

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
x · B	0.20183780117541095	0.20183780113260227	0.2018378011326	1.9999999999999999e-06	2.0000000000000002e-05
x · HR	1.2236495175008737	1.2236495174484909	1.2236495174485	1.9999999999999999e-06	2.0000000000000002e-05
x · SE	0.09839791108715 7328	0.09839791108648 5684	0.09839791108648 6003	1.9999999999999999e-06	2.0000000000000002e-05
x · p	0.04024351102113 8947	0.04024351106212 299	0.04024351106212 4003	1.9999999999999999e-06	2.0000000000000002e-05
z · B	-0.3392533039452 3984	-0.3392533039277 5671	-0.3392533039277 5999	1.9999999999999999e-06	2.0000000000000002e-05
z · HR	0.71230199732945 954	0.71230199734191 28	0.71230199734191 002	1.9999999999999999e-06	2.0000000000000002e-05
z · SE	0.09783276038067 9229	0.09783276038068 3503	0.09783276038068 4003	1.9999999999999999e-06	2.0000000000000002e-05
z · p	0.00052496009532 227643	0.00052496009567 164247	0.00052496009567 163998	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları


```
{
                                                "configuration":                                {
                                                        "test":                        "cox",
                                                        "var1":                        "time",
                                                    "event_var":                       "event",
                                                    "multi_vars":                         [
                                                                                          "x",
                                                                                          "z"
                                                                                           ],
                                                        "alpha":                        0.05,
```

"include_plot": false,
"assumption_auto_select": false
},
"input_rows": 160,
"complete_rows": 160,
"ties": "Breslow (statsmodels PHReg default; SPSS COXREG default)",
"csv_header": true,
"csv_separator": ","
}

Veri ve sonuç dosyaları

data/cox-threeway/tied.csv SHA-256: 7e95da7e0ab3a1bee290279fc13f65dabbadde04b5a4b6ab98c512c3d0f14feb

cases/cox-threeway-tied/settings.json SHA-256: 9e77bffcb6e265ae4e926bf4988ca144ca16c239dc54c44197b84dbb8d0801a1

cases/cox-threeway-tied/results.json SHA-256: 9204dc8d8bec7d79f4a8afa50220cbc767997b0c2b52eb84e1787cc123b8eb4a

122. Cox Regresyon

Senaryo: missing · CiterLab + R + SPSS · Girdi satırı: 160

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
x · B	0.19886671741908549	0.19886671739090991	0.19886671739091	1.9999999999999999e-06	2.0000000000000002e-05
x · HR	1.2200193477355972	1.2200193477012222	1.2200193477012	1.9999999999999999e-06	2.0000000000000002e-05
x · SE	0.09918892346318 5932	0.099188923462746797	0.099188923462747006	1.9999999999999999e-06	2.0000000000000002e-05
x · p	0.044970672096993222	0.044970672126416276	0.044970672126416998	1.9999999999999999e-06	2.0000000000000002e-05
z · B	-0.33338350637367409	-0.33338350636215858	-0.33338350636216002	1.9999999999999999e-06	2.0000000000000002e-05
z · HR	0.7164953609212976 2	0.71649536092954846	0.71649536092955002	1.9999999999999999e-06	2.0000000000000002e-05
z · SE	0.09844826196211 5216	0.098448261962126971	0.098448261962126998	1.9999999999999999e-06	2.0000000000000002e-05
z · p	0.00070820505512774118	0.00070820505543306844	0.00070820505543069004	1.9999999999999999e-06	2.0000000000000002e-05

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
"configuration": {
"test": "cox",
"var1": "time",
"event_var": "event",
"multi_vars": [
"x",
"z"
],
"alpha": 0.05,
"include_plot": false,
"assumption_auto_select": false
},
"input_rows": 160,
"complete_rows": 157,
"ties": "Breslow (statsmodels PHReg default; SPSS COXREG default)",
"csv_header": true,
"csv_separator": ","
}
```


Veri ve sonuç dosyaları

> data/cox-threeway/missing.csv SHA-256: 680952a4a7dbe8e796bb83ab5c3322de850b078c877392006970845ae4a27477
>
> cases/cox-threeway-missing/settings.json SHA-256: b17ebd480e499aa0000dcd99d490161eedabb71c183e4e2519bc975a075580ac
>
> cases/cox-threeway-missing/results.json SHA-256: beebe7d117133c4cd81d749d7aa3247209291fcd9e9f40e9f29928a4ee4c4594

123. Panel — havuzlanmış OLS

Senaryo: panel_pooled · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
slopes [1]	2.3696668019484921	2.3696668019484899	—	1.0000000000000001e-09	9.9999999999999995e-07
slopes [2]	-0.58768886269868026	-0.58768886269868104	—	1.0000000000000001e-09	9.9999999999999995e-07
standard_errors [1]	0.063441562012856723	0.063441562012856695	—	1.0000000000000001e-09	9.9999999999999995e-07
standard_errors [2]	0.089520971701228177	0.089520971701228205	—	1.0000000000000001e-09	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual run_advanced versus installed R

Analiz ayarları

{
"scenario": "panel_pooled",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

data/econometrics/ar1_forecast.csv SHA-256:
b50c9173a83df268002d3a7ef0353e2f14aceaa39dfbe58f4a691df1f0d18d57

data/econometrics/ar1_params.csv SHA-256:
e26b36b210491bf029e2b9d82061749cf08b1e301b46884726d93279b6d1bb6f

data/econometrics/fe_entity.csv SHA-256:
14e64ceb2ffa16e7d63ab2dde2da6bcd32126725ebdccea3c258bdf886ae2b3a

data/econometrics/fe_two_way.csv SHA-256:
b4f7c37cb551d62e2a4dd50a14708fac92f92a6b1b03115101c7b01fc7d32b02

data/econometrics/panel.csv SHA-256:
8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometrics/pooled.csv SHA-256:
bc1ab52426ab0e8d7d7e130739044677412ee709b637bda435f100ffab2ae777

data/econometrics/random_walk_forecast.csv SHA-256:
825680fb90445fd069e525388241353dfd23d069135346b4cc8438e8e0208b66

data/econometrics/random_walk_params.csv SHA-256:
a02ea1b67956fd88b3121dd6d7f5fea7b9e0115986f6e647366b47443eeb6dd8

data/econometrics/re_gls.csv SHA-256:
2dd4da3dc26691de8712689ba2615a642bca34522191e3ea11188fa58b7ae9c8

data/econometrics/seasonal_walk_forecast.csv SHA-256:
f9ed2ee092e72260b7ff1baa505b86b01dbee8c5d20d052adef53ceb099f5c8f

data/econometrics/seasonal_walk_params.csv SHA-256:
a026fbce2b1dd548ccc84bdfe897224bb4773de7debf23d992f9a1d811606892

data/econometrics/series.csv SHA-256:
6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-panel_pooled/settings.json SHA-256:
a02211b1e183b414dc0c30a58b07ae50320097e2151c14aaf6468a38ae41e7be

cases/econometrics-panel_pooled/results.json SHA-256:
32860d6159e56ee3e49639c29beda8b20fe25e3e2bc227a3fee46bd6b36d00cf

124. Panel — sabit etkiler

Senaryo: panel_fe · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
slopes [1]	1.5061498205105657	1.5061498205105699	—	1.0000000000000001e-09	9.9999999999999995e-07
slopes [2]	-0.67266865543717436	-0.67266865543717502	—	1.0000000000000001e-09	9.9999999999999995e-07
standard_errors [1]	0.049341811336740066	0.049341811336740100	—	1.0000000000000001e-09	9.9999999999999995e-07
standard_errors [2]	0.050523291116710041	0.050523291116710500	—	1.0000000000000001e-09	9.9999999999999995e-07

Karşılaştırma ayrıntısı

actual run_advanced versus installed R

Analiz ayarları

{
"scenario": "panel_fe",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

data/econometrics/ar1_forecast.csv SHA-256: b50c9173a83df268002d3a7ef0353e2f14aceaa39dfbe58f4a691df1f0d18d57

data/econometrics/ar1_params.csv SHA-256: e26b36b210491bf029e2b9d82061749cf08b1e301b46884726d93279b6d1bb6f

data/econometrics/fe_entity.csv SHA-256: 14e64ceb2ffa16e7d63ab2dde2da6bcd32126725ebdccea3c258bdf886ae2b3a

data/econometrics/fe_two_way.csv SHA-256: b4f7c37cb551d62e2a4dd50a14708fac92f92a6b1b03115101c7b01fc7d32b02

data/econometrics/panel.csv SHA-256: 8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometrics/pooled.csv SHA-256: bc1ab52426ab0e8d7d7e130739044677412ee709b637bda435f100ffab2ae777

data/econometrics/random_walk_forecast.csv SHA-256: 825680fb90445fd069e525388241353dfd23d069135346b4cc8438e8e0208b66

data/econometrics/random_walk_params.csv SHA-256: a02ea1b67956fd88b3121dd6d7f5fea7b9e0115986f6e647366b47443eeb6dd8

data/econometrics/re_gls.csv SHA-256: 2dd4da3dc26691de8712689ba2615a642bca34522191e3ea11188fa58b7ae9c8

data/econometrics/seasonal_walk_forecast.csv SHA-256: f9ed2ee092e72260b7ff1baa505b86b01dbee8c5d20d052adef53ceb099f5c8f

data/econometrics/seasonal_walk_params.csv SHA-256: a026fbce2b1dd548ccc84bdfe897224bb4773de7debf23d992f9a1d811606892

data/econometrics/series.csv SHA-256: 6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-panel_fe/settings.json SHA-256: a25a07d3fdc11998adb4b90534a09c51eaa5363fe2943bc5c580282de6039fab

cases/econometrics-panel_fe/results.json SHA-256: db6ecbc31b4bdbc3a39abc06b546a0d1aaf5978b8676d49ca4c06c4421145f8e

125. Panel — sabit etkiler

Senaryo: panel_fe_two_way · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
slopes [1]	1.5162335487927201	1.5162335487927201	—	1.0000000000000001e-09	9.999999999999995e-07
slopes [2]	-0.6750048859835569	-0.67500488598355701	—	1.0000000000000001e-09	9.999999999999995e-07
standard_errors [1]	0.047678268526569832	0.047678268526569798	—	1.0000000000000001e-09	9.999999999999995e-07
standard_errors [2]	0.04850375400718912	0.04850375400718991	—	1.0000000000000001e-09	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual run_advanced versus installed R

Analiz ayarları

{
"scenario": "panel_fe_two_way",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

data/econometrics/ar1_forecast.csv SHA-256: b50c9173a83df268002d3a7ef0353e2f14aceaa39dfbe58f4a691df1f0d18d57

data/econometrics/ar1_params.csv SHA-256: e26b36b210491bf029e2b9d82061749cf08b1e301b46884726d93279b6d1bb6f

data/econometrics/fe_entity.csv SHA-256: 14e64ceb2ffa16e7d63ab2dde2da6bcd32126725ebdccea3c258bdf886ae2b3a

data/econometrics/fe_two_way.csv SHA-256: b4f7c37cb551d62e2a4dd50a14708fac92f92a6b1b03115101c7b01fc7d32b02

data/econometrics/panel.csv SHA-256: 8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometrics/pooled.csv SHA-256: bc1ab52426ab0e8d7d7e130739044677412ee709b637bda435f100ffab2ae777

data/econometrics/random_walk_forecast.csv SHA-256: 825680fb90445fd069e525388241353dfd23d069135346b4cc8438e8e0208b66

data/econometrics/random_walk_params.csv SHA-256: a02ea1b67956fd88b3121dd6d7f5fea7b9e0115986f6e647366b47443eeb6dd8

data/econometrics/re_gls.csv SHA-256: 2dd4da3dc26691de8712689ba2615a642bca34522191e3ea11188fa58b7ae9c8

data/econometrics/seasonal_walk_forecast.csv SHA-256: f9ed2ee092e72260b7ff1baa505b86b01dbee8c5d20d052adef53ceb099f5c8f

data/econometrics/seasonal_walk_params.csv SHA-256: a026fbce2b1dd548ccc84bdfe897224bb4773de7debf23d992f9a1d811606892

data/econometrics/series.csv SHA-256: 6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-panel_fe_two_way/settings.json SHA-256: 003b5ff90bd0bb9e72e8785deb1963f3d26069292e2e8feac615a70f36ea1a54

cases/econometrics-panel_fe_two_way/results.json SHA-256: 3e16e0b815e86db2ab2f9479f2c2e9b515b7d84b0c278934ffdd4198f45c4d1f

126. Panel — rassal etkiler

Senaryo: panel_re · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
balanced_GLS_coefficients [1]	2.4930408730818963	2.49304087308191	—	1.0000000000000001e-09	9.999999999999995e-07
balanced_GLS_coefficients [2]	1.739730302146262	1.7397303021462 6	—	1.0000000000000001e-09	9.999999999999995e-07
balanced_GLS_coefficients [3]	-0.64577225339226452	-0.64577225339226596	—	1.0000000000000001e-09	9.999999999999995e-07

Karşılaştırma ayrıntısı

actual run_advanced versus independent R-language variance-components equations; not plm

Analiz ayarları

{
"scenario": "panel_re",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

data/econometrics/ar1_forecast.csv SHA-256: b50c9173a83df268002d3a7ef0353e2f14aceaa39dfbe58f4a691df1f0d18d57

data/econometrics/ar1_params.csv SHA-256: e26b36b210491bf029e2b9d82061749cf08b1e301b46884726d93279b6d1bb6f

data/econometrics/fe_entity.csv SHA-256: 14e64ceb2ffa16e7d63ab2dde2da6bcd32126725ebdccea3c258bdf886ae2b3a

data/econometrics/fe_two_way.csv SHA-256: b4f7c37cb551d62e2a4dd50a14708fac92f92a6b1b03115101c7b01fc7d32b02

data/econometrics/panel.csv SHA-256:
8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometrics/pooled.csv SHA-256:
bc1ab52426ab0e8d7d7e130739044677412ee709b637bda435f100ffab2ae777

data/econometrics/random_walk_forecast.csv SHA-256:
825680fb90445fd069e525388241353dfd23d069135346b4cc8438e8e0208b66

data/econometrics/random_walk_params.csv SHA-256:
a02ea1b67956fd88b3121dd6d7f5fea7b9e0115986f6e647366b47443eeb6dd8

data/econometrics/re_gls.csv SHA-256:
2dd4da3dc26691de8712689ba2615a642bca34522191e3ea11188fa58b7ae9c8

data/econometrics/seasonal_walk_forecast.csv SHA-256:
f9ed2ee092e72260b7ff1baa505b86b01dbee8c5d20d052adef53ceb099f5c8f

data/econometrics/seasonal_walk_params.csv SHA-256:
a026fbce2b1dd548ccc84bdfe897224bb4773de7debf23d992f9a1d811606892

data/econometrics/series.csv SHA-256:
6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-panel_re/settings.json SHA-256:
22e708e74d3a22df3b3d88ddcf6f22d74061f399cfee8c0c5503e532ba46a7a0

cases/econometrics-panel_re/results.json SHA-256:
2f9ee25df92958750573c39084f5a07f43dd3a4f45fef63dab1d3b3cc60791cc

127. ARIMA — zaman serisi tahmini

Senaryo: ar1 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast [1]	14.447964113354722	14.4479651363442	—	0.0030000000000000001	0.00050000000000000001
forecast [2]	14.754383150793482	14.754382118988 9	—	0.0030000000000000001	0.00050000000000000001
forecast [3]	14.936237963904535	14.936234132817 9	—	0.0030000000000000001	0.00050000000000000001
forecast [4]	15.044165895954 99	15.044159465964 4	—	0.0030000000000000001	0.00050000000000000001
forecast [5]	15.108219402801543	15.108210873972	—	0.0030000000000000001	0.00050000000000000001
forecast [6]	15.146234137832542	15.146224033145 7	—	0.0030000000000000001	0.00050000000000000001
forecast [7]	15.168795276958598	15.168784041041	—	0.0030000000000000001	0.00050000000000000001
forecast [8]	15.182184953310419	15.182172929712699	—	0.0030000000000000001	0.00050000000000000001
forecast [9]	15.190131512737439	15.190118952635 1	—	0.0030000000000000001	0.00050000000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast [10]	15.194847669055781	15.194834749579099	—	0.0030000000000000001	0.00050000000000000001
forecast [11]	15.19764663263534	15.197633475562499	—	0.0030000000000000001	0.00050000000000000001
forecast [12]	15.199307772892551	15.199294460380 8	—	0.0030000000000000001	0.00050000000000000001
forecast [13]	15.20029363314964	15.200280219823799	—	0.0030000000000000001	0.00050000000000000001
forecast [14]	15.20087872549346	15.200865247253 8	—	0.0030000000000000001	0.00050000000000000001
forecast [15]	15.201225968470686	15.201212448689 5	—	0.0030000000000000001	0.00050000000000000001
forecast [16]	15.201432051641154	15.201418505415701	—	0.0030000000000000001	0.00050000000000000001
forecast [17]	15.201554358716994	15.201540795734 9	—	0.0030000000000000001	0.00050000000000000001
forecast [18]	15.201626946016415	15.201613372459001	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [1]	12.293595976272375	12.293588296852	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [2]	12.249173196496081	12.249167713905 2	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [3]	12.318627842858174	12.318622685414001	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [4]	12.388098315913803	12.388092260308 2	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [5]	12.438738143726656	12.438730809159 4	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [6]	12.472044290950068	12.472035749086 8	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [7]	12.492948928758816	12.492939413942 5	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [8]	12.505755390863891	12.505745154201	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [9]	12.513496558892459	12.513485812474 1	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [10]	12.518140375322803	12.518129280207599	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [11]	12.520913859572094	12.520902531063999	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [12]	12.522566025472647	12.522554543162	—	0.0030000000000000001	0.00050000000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast_lower[13]	12.523548724759166	12.5235371422658	—	0.0030000000000000001	0.00050000000000000001
forecast_lower[14]	12.524132703736312	12.524121056570801	—	0.0030000000000000001	0.00050000000000000001
forecast_lower[15]	12.524479554559935	12.5244678659448	—	0.0030000000000000001	0.00050000000000000001
forecast_lower[16]	12.524685499604773	12.5246737845801	—	0.0030000000000000001	0.00050000000000000001
forecast_lower[17]	12.524807758029546	12.524796026261299	—	0.0030000000000000001	0.00050000000000000001
forecast_lower[18]	12.524880328192925	12.5248685858543	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[1]	16.602332250437069	16.602341975836399	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[2]	17.259593105090882	17.259596524072599	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[3]	17.553848084950896	17.553845580221701	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[4]	17.700233475996178	17.700226671620602	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[5]	17.777700661876 43	17.777690938784701	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[6]	17.820423984715013	17.8204123172045	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[7]	17.844641625158378	17.844628668139499	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[8]	17.858614515756948	17.8586007052245	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[9]	17.866766466582419	17.866752092796101	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[10]	17.871554962788757	17.871540218950699	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[11]	17.874379405698587	17.874364420060999	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[12]	17.876049520312453	17.876034377599598	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[13]	17.877038541540113	17.8770232973819	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[14]	17.877624747250607	17.877609437936901	—	0.0030000000000000001	0.00050000000000000001
forecast_upper[15]	17.877972382381436	17.8779570314342	—	0.0030000000000000001	0.00050000000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast_upper[16]	17.878178603677537	17.8781632262512	—	0.00300000000000000001	0.00050000000000000001
forecast_upper[17]	17.878300959404442	17.878285565208401	—	0.00300000000000000001	0.00050000000000000001
forecast_upper[18]	17.878373563839904	17.878358159063701	—	0.00300000000000000001	0.00050000000000000001

Karşılaştırma ayrıntısı

actual run_advanced versus installed R

Analiz ayarları

{
"scenario": "ar1",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

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data/econometrics/ar1_params.csv SHA-256: e26b36b210491bf029e2b9d82061749cf08b1e301b46884726d93279b6d1bb6f

data/econometrics/fe_entity.csv SHA-256: 14e64ceb2ffa16e7d63ab2dde2da6bcd32126725ebdccea3c258bdf886ae2b3a

data/econometrics/fe_two_way.csv SHA-256: b4f7c37cb551d62e2a4dd50a14708fac92f92a6b1b03115101c7b01fc7d32b02

data/econometrics/panel.csv SHA-256: 8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometrics/pooled.csv SHA-256: bc1ab52426ab0e8d7d7e130739044677412ee709b637bda435f100ffab2ae777

data/econometrics/random_walk_forecast.csv SHA-256: 825680fb90445fd069e525388241353dfd23d069135346b4cc8438e8e0208b66

data/econometrics/random_walk_params.csv SHA-256: a02ea1b67956fd88b3121dd6d7f5fea7b9e0115986f6e647366b47443eeb6dd8

data/econometrics/re_gls.csv SHA-256: 2dd4da3dc26691de8712689ba2615a642bca34522191e3ea11188fa58b7ae9c8

data/econometrics/seasonal_walk_forecast.csv SHA-256: f9ed2ee092e72260b7ff1baa505b86b01dbee8c5d20d052adef53ceb099f5c8f

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data/econometrics/series.csv SHA-256: 6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-ar1/settings.json SHA-256: 4bcdb0c8f91d78003a0d359b203e66a774730dbea455aecf86ace4be9a217cce

cases/econometrics-ar1/results.json SHA-256: 9201e55ed919e0afd31c81778d6bcf9bcd2b4702f8f0395d0d4871bb49566b82

128. ARIMA — zaman serisi tahmini

Senaryo: random_walk · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast [1]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [2]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [3]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [4]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [5]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [6]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [7]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [8]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [9]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [10]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [11]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [12]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [13]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [14]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [15]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [16]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001
forecast [17]	13.931658688721509	13.9316586887215	—	0.00300000000000001	0.00050000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast [18]	13.931658688721509	13.9316586887215	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [1]	11.515134176695557	11.515124198085	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [2]	10.514176950040103	10.5141628381218	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [3]	9.7461154562104042	9.7460981726974296	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [4]	9.0986096647390138	9.0985897074495696	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [5]	8.5281456106197489	8.5281232976866495	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [6]	8.0124066834242686	8.0123822408269305	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [7]	7.5381357929140629	7.5381093918885904	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [8]	7.0966952114077744	7.0966669875220099	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [9]	6.682085152767046	6.6820552168136	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [10]	6.2899372092242398	6.2899056539570104	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [11]	5.9169535857742677	5.9169204903293897	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [12]	5.5605722237393689	5.5605376566733602	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [13]	5.218755652350346	5.2187196738062704	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [14]	4.8898518981400798	4.8898145614394304	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [15]	4.5724994981102558	4.5724608509525799	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [16]	4.2655606407912217	4.2655207261776296	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [17]	3.9680728789238966	3.9680317358812398	—	0.0030000000000000001	0.00050000000000000001
forecast_lower [18]	3.6792134727645376	3.6791711369222702	—	0.0030000000000000001	0.00050000000000000001
forecast_upper [1]	16.34818320074746	16.348193179357501	—	0.0030000000000000001	0.00050000000000000001
forecast_upper [2]	17.349140427402915	17.349154539321301	—	0.0030000000000000001	0.00050000000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast_upper[3]	18.117201921232613	18.117219204745599	—	0.00300000000000001	0.00050000000000001
forecast_upper[4]	18.764707712704002	18.764727669993398	—	0.00300000000000001	0.00050000000000001
forecast_upper[5]	19.335171766823269	19.335194079756398	—	0.00300000000000001	0.00050000000000001
forecast_upper[6]	19.850910694018751	19.850935136616101	—	0.00300000000000001	0.00050000000000001
forecast_upper[7]	20.325181584528956	20.325207985554	—	0.00300000000000001	0.00050000000000001
forecast_upper[8]	20.766622166035244	20.766650389921001	—	0.00300000000000001	0.00050000000000001
forecast_upper[9]	21.181232224675973	21.181262160629402	—	0.00300000000000001	0.00050000000000001
forecast_upper[10]	21.573380168218776	21.573411723486	—	0.00300000000000001	0.00050000000000001
forecast_upper[11]	21.946363791668752	21.946396887113 6	—	0.00300000000000001	0.00050000000000001
forecast_upper[12]	22.302745153703647	22.302779720769699	—	0.00300000000000001	0.00050000000000001
forecast_upper[13]	22.644561725092672	22.644597703636698	—	0.00300000000000001	0.00050000000000001
forecast_upper[14]	22.973465479302938	22.973502816003599	—	0.00300000000000001	0.00050000000000001
forecast_upper[15]	23.290817879332764	23.290856526490401	—	0.00300000000000001	0.00050000000000001
forecast_upper[16]	23.597756736651796	23.597796651265401	—	0.00300000000000001	0.00050000000000001
forecast_upper[17]	23.895244498519119	23.895285641561799	—	0.00300000000000001	0.00050000000000001
forecast_upper[18]	24.184103904678 48	24.184146240520 7	—	0.00300000000000001	0.00050000000000001

Karşılaştırma ayrıntısı

actual run_advanced versus installed R

Analiz ayarları

{
"scenario": "random_walk",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

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data/econometrics/ar1_params.csv SHA-256:
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data/econometrics/fe_two_way.csv SHA-256:
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data/econometrics/panel.csv SHA-256:
8c575ae6c2b785d88d8456d3c5f3741522db1686f5056edc980e3d45dbb497ab

data/econometrics/pooled.csv SHA-256:
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data/econometrics/random_walk_forecast.csv SHA-256:
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data/econometrics/series.csv SHA-256:
6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-random_walk/settings.json SHA-256:
7ffe36620b70d15b1c335704446cef95985c06e65fcd93960e9a5f1854819031

cases/econometrics-random_walk/results.json SHA-256:
885f1ccea24a4c953a2dadca31ac5d75e268450ca5e954fcc6e300dcbf534e4c

129. SARIMA — mevsimsel zaman serisi

Senaryo: seasonal_walk · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast [1]	16.454295009938779	16.4542950099388	—	0.00300000000000001	0.00050000000000001
forecast [2]	18.135035073628732	18.13503507362887	—	0.00300000000000001	0.00050000000000001
forecast [3]	16.463093814156903	16.463093814156899	—	0.00300000000000001	0.00050000000000001
forecast [4]	15.961005858594038	15.961005858594399	—	0.00300000000000001	0.00050000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast [5]	18.904187453735481	18.904187453735499	—	0.00300000000000001	0.00050000000000001
forecast [6]	16.79985291499893	16.799852914998901	—	0.00300000000000001	0.00050000000000001
forecast [7]	16.213440469459304	16.2134404694593	—	0.00300000000000001	0.00050000000000001
forecast [8]	15.234529522977551	15.234529522977599	—	0.00300000000000001	0.00050000000000001
forecast [9]	14.819478989795703	14.8194789897957	—	0.00300000000000001	0.00050000000000001
forecast [10]	14.46552575611371	14.465525756113699	—	0.00300000000000001	0.00050000000000001
forecast [11]	12.873084455177793	12.87308445517778	—	0.00300000000000001	0.00050000000000001
forecast [12]	13.931658688721509	13.93165868872115	—	0.00300000000000001	0.00050000000000001
forecast [13]	16.454295009938779	16.45429500993888	—	0.00300000000000001	0.00050000000000001
forecast [14]	18.135035073628732	18.13503507362887	—	0.00300000000000001	0.00050000000000001
forecast [15]	16.463093814156903	16.463093814156899	—	0.00300000000000001	0.00050000000000001
forecast [16]	15.96100585859438	15.961005858594399	—	0.00300000000000001	0.00050000000000001
forecast [17]	18.904187453735481	18.904187453735499	—	0.00300000000000001	0.00050000000000001
forecast [18]	16.79985291499893	16.799852914998901	—	0.00300000000000001	0.00050000000000001
forecast_lower [1]	13.246752250231232	13.246742886383	—	0.00300000000000001	0.00050000000000001
forecast_lower [2]	14.927492313921185	14.927482950072999	—	0.00300000000000001	0.00050000000000001
forecast_lower [3]	13.255551054449356	13.25554169060102	—	0.00300000000000001	0.00050000000000001
forecast_lower [4]	12.753463098886833	12.753453735038599	—	0.00300000000000001	0.00050000000000001
forecast_lower [5]	15.696644694027935	15.696635330179699	—	0.00300000000000001	0.00050000000000001
forecast_lower [6]	13.592310155291383	13.592300791443201	—	0.00300000000000001	0.00050000000000001
forecast_lower [7]	13.005897709751757	13.005888345903606	—	0.00300000000000001	0.00050000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast_lower[8]	12.026986763270004	12.026977399421799	—	0.00300000000000001	0.00050000000000001
forecast_lower[9]	11.611936230088157	11.611926866239999	—	0.00300000000000001	0.00050000000000001
forecast_lower[10]	11.257982996406163	11.257973632558	—	0.00300000000000001	0.00050000000000001
forecast_lower[11]	9.665541695470246	9.665532331622049 6	—	0.00300000000000001	0.00050000000000001
forecast_lower[12]	10.724115929013962	10.724106565165799	—	0.00300000000000001	0.00050000000000001
forecast_lower[13]	11.918144537219771	11.918131294787599	—	0.00300000000000001	0.00050000000000001
forecast_lower[14]	13.598884600909724	13.598871358477 6	—	0.00300000000000001	0.00050000000000001
forecast_lower[15]	11.926943341437894	11.926930099005 8	—	0.00300000000000001	0.00050000000000001
forecast_lower[16]	11.424855385875372	11.424842143443 2	—	0.00300000000000001	0.00050000000000001
forecast_lower[17]	14.368036981016473	14.368023738584 3	—	0.00300000000000001	0.00050000000000001
forecast_lower[18]	12.263702442279921	12.263689199847 8	—	0.00300000000000001	0.00050000000000001
forecast_upper[1]	19.661837769646326	19.661847133494501	—	0.00300000000000001	0.00050000000000001
forecast_upper[2]	21.342577833336279	21.342587197184 5	—	0.00300000000000001	0.00050000000000001
forecast_upper[3]	19.670636573864449	19.670645937712 6	—	0.00300000000000001	0.00050000000000001
forecast_upper[4]	19.168548618301926	19.168557982150102	—	0.00300000000000001	0.00050000000000001
forecast_upper[5]	22.111730213443028	22.111739577291 2	—	0.00300000000000001	0.00050000000000001
forecast_upper[6]	20.007395674706476	20.007405038554701	—	0.00300000000000001	0.00050000000000001
forecast_upper[7]	19.420983229166 85	19.420992593015001	—	0.00300000000000001	0.00050000000000001
forecast_upper[8]	18.442072282685096	18.442081646533 3	—	0.00300000000000001	0.00050000000000001
forecast_upper[9]	18.027021749503248	18.027031113351399	—	0.00300000000000001	0.00050000000000001
forecast_upper[10]	17.673068515821257	17.673077879669 4	—	0.00300000000000001	0.00050000000000001

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
forecast_upper[11]	16.080627214885 34	16.080636578733 5	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[12]	17.139201448429 056	17.139210812277 199	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[13]	20.990445482657 787	20.990458725089 901	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[14]	22.671185546347 74	22.671198788779 9	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[15]	20.999244286875 911	20.999257529308 1	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[16]	20.497156331313 388	20.497169573745 499	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[17]	23.440337926454 49	23.440351168886 6	—	0.003000000000000 0001	0.0005000000000000 0001
forecast_upper[18]	21.336003387717 938	21.336016630150 102	—	0.003000000000000 0001	0.0005000000000000 0001

Karşılaştırma ayrıntısı

actual run_advanced versus installed R

Analiz ayarları

{
"scenario": "seasonal_walk",
"reference": "Same exported time/panel data, explicit FE/RE or ARIMA structure."
}

Veri ve sonuç dosyaları

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data/econometrics/ar1_params.csv SHA-256: e26b36b210491bf029e2b9d82061749cf08b1e301b46884726d93279b6d1bb6f

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data/econometrics/series.csv SHA-256: 6019e6a78f2ed813b587e1882d04a6b1d68607fe984bfc7cbd26a6af5f79d9fb

cases/econometrics-seasonal_walk/settings.json SHA-256: 380de73d326c363d6e38ee7dc99b36c71c71f0414cea2d3113bc775e667e135c

cases/econometrics-seasonal_walk/results.json SHA-256: 85d7822e0221e689b90492a40a8e9ca3eb903498173d704a14be20592fcaf8c9

130. Test geliştirme ve madde analizi

Senaryo: rubric · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
rubric.alpha	0.43496337543912078	0.434963375439121	—	1.0000000000000001e-09	0
rubric.A.r_rest	0.46189281544373945	0.461892815443739	—	1.0000000000000001e-09	0
rubric.A.alpha_deleted	0.197223898611949	0.197223898611949	—	1.0000000000000001e-09	0
rubric.A.p	0.53333333333333333	0.53333333333333299	—	1.0000000000000001e-09	0
rubric.B.r_rest	0.51526101773070188	0.51526101773070199	—	1.0000000000000001e-09	0
rubric.B.alpha_deleted	0.15973418656165334	0.159734186561654	—	1.0000000000000001e-09	0
rubric.B.p	0.55833333333333335	0.55833333333333302	—	1.0000000000000001e-09	0
rubric.C.r_rest	0.15881719254792789	0.158817192547928	—	1.0000000000000001e-09	0
rubric.C.alpha_deleted	0.43047356683720289	0.430473566837203	—	1.0000000000000001e-09	0
rubric.C.p	0.44166666666666665	0.44166666666666698	—	1.0000000000000001e-09	0
rubric.D.r_rest	-0.10006814780142227	-0.10006814780142199	—	1.0000000000000001e-09	0
rubric.D.alpha_deleted	0.5970999447671903	0.59709994476718997	—	1.0000000000000001e-09	0

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
rubric.D.p	0.47916666666666669	0.47916666666666702	—	1.0000000000000001e-09	0
rubric.E.r_rest	0.20976459444856499	0.20976459444856499	—	1.0000000000000001e-09	0
rubric.E.alpha_deleted	0.39305864979983413	0.39305864979983401	—	1.0000000000000001e-09	0
rubric.E.p	0.47916666666666669	0.47916666666666702	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"scenario": "rubric"
}

Veri ve sonuç dosyaları

data/rubric_meta/effects.csv SHA-256: 52d5272e23e5d101bf83c05a06d8d055000b2cd78c781575ee124d47bf2c596e

data/rubric_meta/meta.csv SHA-256: 08343b919d8882607ec33d3fe06be99599a56a51f794bd2742c3398169f16580

data/rubric_meta/rubric.csv SHA-256: 586d4e8991e138bc84dde42c329406f23e4556dd79c91c34ab63797a4fa14a9b

data/rubric_meta/rubric_items.csv SHA-256: 1cd935be3a7cc685c9d17d9438ac8df66a8e83691d55d2de97f4166679a36d1a

data/rubric_meta/rubric_test.csv SHA-256: f1ab35d6a08e84dfcf8867ca9d0914a549fc797738f4b37d514841c6204f52c0

cases/extensions-rubric/settings.json SHA-256: f9b915dbc31434fdfcce57d9f1d651f4ac1a74f078ee462745013f12cd9de269

cases/extensions-rubric/results.json SHA-256: e10af0de239ab218948a8fe32dbb55e835ebc8841f781eb87fbbcd35ca0548b6

131. Meta analiz — rastgele etkiler (Paule–Mandel)

Senaryo: meta · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
meta.fixed	1.3636363636363638	1.36363636363636	—	9.9999999999999995e-08	0
meta.fixed_se	0.2335496832484569	0.23354968324845701	—	9.9999999999999995e-08	0
meta.random	1.4238734448735251	1.4238734448735699	—	9.9999999999999995e-08	0
meta.tau2	0.10236497211479161	0.10236497211494	—	9.9999999999999995e-08	0
meta.random_se	0.30522246576992351	0.305222465770011	—	9.9999999999999995e-08	0

Karşılaştırma ayrıntısı

> Full-precision calculation comparison

Analiz ayarları

{
"scenario": "meta"
}

Veri ve sonuç dosyaları

data/rubric_meta/effects.csv SHA-256:
52d5272e23e5d101bf83c05a06d8d055000b2cd78c781575ee124d47bf2c596e

data/rubric_meta/meta.csv SHA-256:
08343b919d8882607ec33d3fe06be99599a56a51f794bd2742c3398169f16580

data/rubric_meta/rubric.csv SHA-256:
586d4e8991e138bc84dde42c329406f23e4556dd79c91c34ab63797a4fa14a9b

data/rubric_meta/rubric_items.csv SHA-256:
1cd935be3a7cc685c9d17d9438ac8df66a8e83691d55d2de97f4166679a36d1a

data/rubric_meta/rubric_test.csv SHA-256:
f1ab35d6a08e84dfcf8867ca9d0914a549fc797738f4b37d514841c6204f52c0

cases/extensions-meta/settings.json SHA-256:
1cc7156de3b78562af6da784bbbac69d2ffa63e22e40a86aa8069659933d1f64

cases/extensions-meta/results.json SHA-256:
b7f01eb6420300025f1e025c1ef847e81953f590f9f5c62be8f91c96669c0c6a

132. İlişkisel şablon

Senaryo: relational · CiterLab + R · Girdi satırı: 80

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
A_B/ statistic	0.35689976482950858	0.35689976482950903	—	1e-08	9.9999999999999995e-07
A_B/p	0.0011552769265070414	0.001155276926507	—	1e-08	9.9999999999999995e-07
A_B/ ci_low	0.14885567012641163	0.14885567012641199	—	1e-08	9.9999999999999995e-07
A_B/ ci_high	0.53468807510600957	0.53468807510601002	—	1e-08	9.9999999999999995e-07
A_C/ statistic	0.3230065466135531	0.32300654661355299	—	1e-08	9.9999999999999995e-07
A_C/p	0.00347394375755014	0.0034739437575501001	—	1e-08	9.9999999999999995e-07
A_C/ ci_low	0.11118010180056905	0.111180101800569	—	1e-08	9.9999999999999995e-07
A_C/ ci_high	0.50675877464931085	0.50675877464931096	—	1e-08	9.9999999999999995e-07
B_C/ statistic	0.015124134298715713	0.015124134298715701	—	1e-08	9.9999999999999995e-07
B_C/p	0.89407242797946218	0.89407242797946096	—	1e-08	9.9999999999999995e-07
B_C/ ci_low	-0.20527489607520871	-0.20527489607520899	—	1e-08	9.9999999999999995e-07
B_C/ ci_high	0.23406323183998923	0.23406323183998901	—	1e-08	9.9999999999999995e-07
A_B/ holm_p	0.0034658307795211243	0.0034658307795209999	—	1e-08	9.9999999999999995e-07
A_C/ holm_p	0.00694788751510028	0.0069478875151002002	—	1e-08	9.9999999999999995e-07
B_C/ holm_p	0.89407242797946218	0.89407242797946096	—	1e-08	9.9999999999999995e-07
regression/r2	0.22827583751929725	0.228275837519297	—	1e-08	9.9999999999999995e-07
regression/p	1.2518382154411746e-05	1.25183821544118e-05	—	1e-08	9.9999999999999995e-07
canonical/root1	0.34033646488633729	0.34033646488633701	—	1e-08	9.9999999999999995e-07

Karşılaştırma ayrıntısı

> Actual run_relational_template versus separately executed R; Pearson/Fisher-z/Holm, HC3 regression, canonical QR/SVD root.

Analiz ayarları


```
{
  "version": 1,
  "scales": [
    {
      "name": "A",
      "source": "score",
      "column": "A_total"
    },
    {
      "name": "B",
      "source": "score",
      "column": "B_total"
    },
    {
      "name": "C",
      "source": "score",
      "column": "C_total"
    }
  ],
  "factors": [],
  "participant_id": "ID",
  "independent": true,
  "alpha": 0.05,
  "missing": "available",
  "correlation": "pearson",
  "regression": {
    "y": "A",
    "predictors": [
      "B",
      "C"
    ],
    "factors": []
  },
  "canonical": {
    "left": [
      "A",
      "B"
    ],
    "right": [
      "C"
    ]
  },
  "comparison_mode": "separate",
  "comparison_outcomes": [],
```

```
                "reliability": [
                    "alpha"
                ],
                "validity": [],
                "draws": 200
}
```


Veri ve sonuç dosyaları

data/relational/R_reference.csv SHA-256: 0ca34b5a6429357678d346dd4e427d0d8c85b53d2baa4a6c81a86eb7160e6e0b

data/relational/relational.csv SHA-256: c6cee9c945b53ef41ffee0c6a15484c7f9292d6cd3101cf2a513b7e7d2f5daf7

cases/relational-relational/settings.json SHA-256: 288cc3635b50469d2a798c15d9de80889f41307c8eabdad52cea44a33022346d

cases/relational-relational/results.json SHA-256: 818825e1cf9e1a850450caf3f657ebb2beef369eff91d78374cd154bf6259f21

133. Güç analizi: sekiz aile, üç hedef

Senaryo: 1 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.59828222430412092	0.59828222430467204	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                "family": "one_sample",
                "alpha": 0.05,
                "effect": 0.25,
                "n": 80,
                "n2": 123,
                "groups": 4,
                "df": 6,
                "predictors": 4,
                "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-1/settings.json SHA-256: ca4fa8501bc653f062b4f3fc2084474d771894b4c8de863d5d65e69480b5e515

cases/power-1/results.json SHA-256: 85ff67fc3e194a21f11aa5c0bf287a7603645cbd04b8a22661187ad68eafc9a7

134. Güç analizi: sekiz aile, üç hedef

Senaryo: 2 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.050000000000000031	0.050000000000000003	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                  "family": "one_sample",
                   "alpha": 0.05,
                  "effect": 0,
                       "n": 80,
                      "n2": 123,
                  "groups": 4,
                      "df": 6,
              "predictors": 4,
             "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-2/settings.json SHA-256: 88d03edea01e75ddd2a1e809366d949a6e387bd04986cab9b36d0e0a02be6481

cases/power-2/results.json SHA-256: dd9a8d6e53989684e15575aa32e5246af8a2ab01f53da0636a1129825864e53c

135. Güç analizi: sekiz aile, üç hedef

Senaryo: 3 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.71633862538746995	0.71633862538767801	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "one_sample",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-3/settings.json SHA-256: e110a4203fb975d68a99fd90bec621be1f976a1d5ca3afe8f15ae1804be8e5a1

cases/power-3/results.json SHA-256: a4a015b505e880a0acc7a402417d614651d104b694e967fd76b2fb90ccdd4059

136. Güç analizi: sekiz aile, üç hedef

Senaryo: 4 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999933	0.050000000000000003	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "one_sample",
                     "alpha": 0.05,
                    "effect": 0,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-4/settings.json SHA-256: 6a644f6bfa768e6fa2ae30ff3c4957cf01972075e1c8f278a3cd56037cb1f9fe

cases/power-4/results.json SHA-256: 41c96612b24aed4209b293da22d06692760aaaa4fb385562c894ca0440f00e99

137. Güç analizi: sekiz aile, üç hedef

Senaryo: 5 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.41004361166849868	0.41004361166855102	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "independent_t",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
```

"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-5/settings.json SHA-256: 924953003b0017dc45ce702c3372fc324e1ac889d21aa7bee63bcb0a18b429a2

cases/power-5/results.json SHA-256: 42d13a040a2c4f141fc1da50d4066a70acf032e621fa2b2bf83498fcd4f04f20

138. Güç analizi: sekiz aile, üç hedef

Senaryo: 6 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.050000000000000031	0.050000000000000301	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"family": "independent_t",
"alpha": 0.05,
"effect": 0,
"n": 80,
"n2": 123,
"groups": 4,
"df": 6,
"predictors": 4,
"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-6/settings.json SHA-256: bb8039cedcf9c5c3d7be95963091a60e78d9eb9b08540d25e18334d13b71b44f

cases/power-6/results.json SHA-256: 5ed35cc58cbbc162197953044876b3dbdccafafe37db1084ac68bd7f25dd3e6d

139. Güç analizi: sekiz aile, üç hedef

Senaryo: 7 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.53579547522923077	0.53579547522927295	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "independent_t",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-7/settings.json SHA-256: db1e6f5f17ecf5f4d4262d7bed144ff3160cae047c90c71ba73b842e5dd80557

cases/power-7/results.json SHA-256: 1ed1f84222883a7543eb9164282db4066685240356c95ec84d8224bb2e58f3d7

140. Güç analizi: sekiz aile, üç hedef

Senaryo: 8 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.050000000000000044	0.050000000000000197	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "independent_t",
                     "alpha": 0.05,
                    "effect": 0,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-8/settings.json SHA-256: 23e0d846da75a46898c53758bdd14d613f83b80630eaa89b185a0a90ef55954c

cases/power-8/results.json SHA-256: 29d92bb7e627bd27f7bb9decf3879338140ce8d75d11c8a4eedcaf73fe75da1d

141. Güç analizi: sekiz aile, üç hedef

Senaryo: 9 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.59828222430412092	0.59828222430467204	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "paired_t",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
```

```
                "df": 6,
        "predictors": 4,
       "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-9/settings.json SHA-256: d8af2cc9910b85165a7275d9faa8cf42267a2b0ed9c0a71b4db9727ee0299d6a

cases/power-9/results.json SHA-256: 85ff67fc3e194a21f11aa5c0bf287a7603645cbd04b8a22661187ad68eafc9a7

142. Güç analizi: sekiz aile, üç hedef

Senaryo: 10 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.050000000000000031	0.050000000000000003	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
          "family": "paired_t",
           "alpha": 0.05,
          "effect": 0,
               "n": 80,
              "n2": 123,
          "groups": 4,
              "df": 6,
      "predictors": 4,
     "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-10/settings.json SHA-256: 3a4cd8be529f77bee6532c00ade17fab3c185598db96f4bb2488bb1b5ad69064

cases/power-10/results.json SHA-256:
dd9a8d6e53989684e15575aa32e5246af8a2ab01f53da0636a1129825864e53c

143. Güç analizi: sekiz aile, üç hedef

Senaryo: 11 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.71633862538746995	0.71633862538767801	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                "family": "paired_t",
                 "alpha": 0.05,
                "effect": 0.25,
                     "n": 80,
                    "n2": 123,
                "groups": 4,
                    "df": 6,
            "predictors": 4,
           "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-11/settings.json SHA-256:
fbb4e9ead373fbaea6f033b911d902cb0e404643399c8a9a4d40f800726b4bcd

cases/power-11/results.json SHA-256:
a4a015b505e880a0acc7a402417d614651d104b694e967fd76b2fb90ccdd4059

144. Güç analizi: sekiz aile, üç hedef

Senaryo: 12 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999933	0.050000000000000003	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                "family": "paired_t",
                 "alpha": 0.05,
                "effect": 0,
                     "n": 80,
                    "n2": 123,
                "groups": 4,
                    "df": 6,
            "predictors": 4,
           "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-12/settings.json SHA-256: 1368f5be5826226e2ddaf026ec3c56dc9c2f29a6919598b7074856e9f06982fb

cases/power-12/results.json SHA-256: 41c96612b24aed4209b293da22d06692760aaaa4fb385562c894ca0440f00e99

145. Güç analizi: sekiz aile, üç hedef

Senaryo: 13 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.97347530604173849	0.97347530634128698	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"family": "anova",
"alpha": 0.05,
"effect": 0.25,
"n": 80,
"n2": 123,
"groups": 4,
"df": 6,
"predictors": 4,
"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-13/settings.json SHA-256: 909e05dd91470396c5c7c5cac694e408b3213d3155e6ecd05aad38d549f45f50

cases/power-13/results.json SHA-256: 418a21506a96bffdbbecef9ef73b1a7753f82778bf7bcffb13b4970cb560db35

146. Güç analizi: sekiz aile, üç hedef

Senaryo: 14 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.050000000000000044	0.050000000000000301	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"family": "anova",
"alpha": 0.05,
"effect": 0,
"n": 80,
"n2": 123,
"groups": 4,
"df": 6,
"predictors": 4,

"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-14/settings.json SHA-256: 843682d3ef88a70ec28ef47069d0428889aab2a428ce64a549b0f775d093b92f

cases/power-14/results.json SHA-256: dbd941e63d77824038f539b61f83b501b45580997b4b72ea447e515d7f7bf0a1

147. Güç analizi: sekiz aile, üç hedef

Senaryo: 15 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.77519470722434569	0.77519470722434602	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"family": "correlation",
"alpha": 0.05,
"effect": 0.3,
"n": 80,
"n2": 123,
"groups": 4,
"df": 6,
"predictors": 4,
"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-15/settings.json SHA-256: f63af7f9dfe04de394be81504a20d1df8ced1d11810ee4bee97ddc6eb6104d45

cases/power-15/results.json SHA-256:
d96e966a926f62fd06c86b107a06234eec5d802ae372e27adaa623832b795e09

148. Güç analizi: sekiz aile, üç hedef

Senaryo: 16 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999954	0.0500000000000001	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                "family": "correlation",
                 "alpha": 0.05,
                  "effect": 0,
                     "n": 80,
                    "n2": 123,
                "groups": 4,
                    "df": 6,
            "predictors": 4,
           "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-16/settings.json SHA-256:
a18e4596b93c168d46ae1c46b503e2750590e5054b2a0acff4bc2f76c8e210f8

cases/power-16/results.json SHA-256:
a0e08cd6d8e30ba7d6f3d1f81d14faf1726a4415339e357b50d947f80731c9dd

149. Güç analizi: sekiz aile, üç hedef

Senaryo: 17 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.85795347333347372	0.85795347333347405	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "correlation",
                     "alpha": 0.05,
                    "effect": 0.3,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-17/settings.json SHA-256: 965849880bd63ddfefb2a01191a24fa17d410de29541b36e8aa0cea77c20bb0d

cases/power-17/results.json SHA-256: 2ee5eb38dc909d93754802a8ef7a9e1d5aefcc91fd29166fb8a26b2dddef016c

150. Güç analizi: sekiz aile, üç hedef

Senaryo: 18 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999975	0.0500000000000001	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "correlation",
                     "alpha": 0.05,
                    "effect": 0,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-18/settings.json SHA-256: d65e6e19dcf06326923b52ec7b7413a25890bc7fd3e972587a7543d4961d8b1e

cases/power-18/results.json SHA-256: 78fa796dff89ee668974080beb5c74061075010a60cea2aa6688680b9de83031

151. Güç analizi: sekiz aile, üç hedef

Senaryo: 19 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.41327610283996247	0.41327610283996302	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "two_proportion",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
```

"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-19/settings.json SHA-256:
a4ad749273e86d57722be4ebccc7a1fccfae384b2dcf62ce88518e464244814a

cases/power-19/results.json SHA-256:
85bbd4cb6af3551cdd276d5831c2f5c1df40a53b047d3abcfb88aca0497ea7a2

152. Güç analizi: sekiz aile, üç hedef

Senaryo: 20 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999954	0.0500000000000001	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"family": "two_proportion",
"alpha": 0.05,
"effect": 0,
"n": 80,
"n2": 123,
"groups": 4,
"df": 6,
"predictors": 4,
"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-20/settings.json SHA-256:
5de8d32a530c6587953c060758e90ce6f9ce83722847e79c2a8ffc1e111d8e58

cases/power-20/results.json SHA-256:
a0e08cd6d8e30ba7d6f3d1f81d14faf1726a4415339e357b50d947f80731c9dd

153. Güç analizi: sekiz aile, üç hedef

Senaryo: 21 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.53812397017637725	0.53812397017637803	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "two_proportion",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-21/settings.json SHA-256:
bff661c398345269b701108f33c64aa9ae288226aacc36e57b981c3783238944

cases/power-21/results.json SHA-256:
ccfadc7475cbdc4fe91e56c3b05b1286493fe43a159eba6eb162f9bf371d50da

154. Güç analizi: sekiz aile, üç hedef

Senaryo: 22 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999975	0.0500000000000001	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "two_proportion",
                     "alpha": 0.05,
                    "effect": 0,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "larger"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-22/settings.json SHA-256: 903d9a45dce39c4bf1f22f86fab4c6397a806c55443c37e9e51eb6faf64c2992

cases/power-22/results.json SHA-256: 78fa796dff89ee668974080beb5c74061075010a60cea2aa6688680b9de83031

155. Güç analizi: sekiz aile, üç hedef

Senaryo: 23 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.33616218352066241	0.33616218352066302	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "chi_square",
                     "alpha": 0.05,
                    "effect": 0.25,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
               "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256: 1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256: 9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-23/settings.json SHA-256: 1749cac0647090a62e3a20e6389d37ea6879023fb554284a7eadbe8d9f71c989

cases/power-23/results.json SHA-256: fb9c93fd3dfb2280044929864e8d5909031a2091dcd6c54d2950cdf02b0170f5

156. Güç analizi: sekiz aile, üç hedef

Senaryo: 24 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.049999999999999996	0.050000000000000003	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                    "family": "chi_square",
                     "alpha": 0.05,
                    "effect": 0,
                         "n": 80,
                        "n2": 123,
                    "groups": 4,
                        "df": 6,
                "predictors": 4,
```

"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-24/settings.json SHA-256:
f1ac9a16938dcffa654231c2c125d7c74b8c18c55e63af8efd6d33b5bc2bcd80

cases/power-24/results.json SHA-256:
2c3828cdf82a72c53da68973045be22ecf2b24bedefe83c7907b8b22b8718be3

157. Güç analizi: sekiz aile, üç hedef

Senaryo: 25 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.77353731038285223	0.77353731052544905	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları

{
"family": "regression",
"alpha": 0.05,
"effect": 0.15,
"n": 80,
"n2": 123,
"groups": 4,
"df": 6,
"predictors": 4,
"alternative": "two-sided"
}

Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-25/settings.json SHA-256:
dd79bc193fd24ee5961994775dced4844a17baa4d1c140a00d9959aa01f97ce5

cases/power-25/results.json SHA-256:
04a315cc899369e0493ce1bdf6206b334033513d547c0ab8921d7c73725436ed

158. Güç analizi: sekiz aile, üç hedef

Senaryo: 26 · CiterLab + R · Girdi satırı: ayar/veri dosyasında

Same saved data and explicitly matched model/settings. Scope and precision are recorded for every numerical cell.

Ölçüt	CiterLab	R	SPSS	Mutlak tolerans	Göreli tolerans
achieved_power	0.050000000000000044	0.050000000000000003	—	1.0000000000000001e-09	0

Karşılaştırma ayrıntısı

Full-precision calculation comparison

Analiz ayarları


```
{
                "family": "regression",
                 "alpha": 0.05,
                "effect": 0,
                     "n": 80,
                    "n2": 123,
                "groups": 4,
                    "df": 6,
            "predictors": 4,
           "alternative": "two-sided"
}
```


Veri ve sonuç dosyaları

data/power/r_reference.csv SHA-256:
1c8e8ab920ebc9781a03a769eec54bf465cb0211b37662525d417e253dfe3773

data/power/reference_input.csv SHA-256:
9f77aa1e3d2cf05b68f6d700ac1bc993904f9b8567affef4c6fc4c2d88ec0466

cases/power-26/settings.json SHA-256:
ef2fc1fb8a2031400d57e4be57e8d127d0ca7debdbd493e30c4e0da8b2a787d4

cases/power-26/results.json SHA-256:
4a363b1da9f359d939d564f70e41d8117cd68b6521958a3f8096cb8f930498e7

10. Yöntem belgeleri

lavaan — Estimators and more

R survival — coxph

statsmodels — resmî belgeler

CRAN biotools

CiterLab · Sayısal doğrulama ve kullanım kaydı · 24 Kasım 2026. Veri, model ve sonuçlar sürüm ve senaryo kimlikleriyle incelenmelidir.