Güvenilirlik Analizi

Araştırmalarda kullanılan ölçeklerde, ölçeğin güvenilirliğinin test edilmesi önemlidir.

Güvenilirlik analizi ile ölçeğin iç tutarlılığının denetlenmesi mümkündür.

Bu analiz, ölçeğin maddelerinin birbiriyle ne derece uyumlu olduğunu sınamaya yarar.

Güvenilirlik analizi, metot kısmında yer verilmesi beklenen bir analizdir.

Bu analizin uygulanabilmesi için benzer ölçümleri (örneğin olumlu ya da olumsuz) yapıyor olması gerekir.

Bu koşulun sağlanmaması durumunda, ilgili ölçek maddeleri yeniden kodlanarak tersine çevrilebilir.

Özellikle yeni bir ölçek geliştirme ile ilgilenen araştırmacılar, daha detaylı soruşturmalar da yapmalıdır.

Güvenilirlik analizinin iyi sonuçlar verebilmesi için 10 ya da daha fazla değişkenden oluşan ölçeklerin kullanılması tavsiye edilir.

# Verilerin Yorumlanması

Inter-Item correlation matrix’te tüm değerler pozitif olmalıdır. Negatif değerler varsa, değişkenin yeniden kodlanması gerekir.

Reliability Statistics tablosunda Cronbach’s Alpha 0.7’den büyük olmalıdır. 0.8’den büyük bir değer de tercih edilebilir.

Corrected Item-Total Correlation tablosu 0.3’ten büyük olmalıdır. Bunu sağlamayan değişkenler ölçeğüin güvenilirliğini azaltır.

Alpha if item deleted kolonu, her bir değişkenin çıkarılması durumunda Cronbach Alpha değerini yeniden hesaplar. Bu sayede ölçeğin güvenilirliğinin hangi değişkenler çıkarılarak artırılabileceği bilinebilir.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | | | | | |
|  | | Would not like to have as neighbors: People of a different race | Would not like to have as neighbors: People who have AIDS | Would not like to have as neighbors: Immigrants/foreign workers | Would not like to have as neighbors: Homosexuals | Would not like to have as neighbors: People of a different religion | Would not like to have as neighbors: Heavy drinkers | Would not like to have as neighbors: Unmarried couples living together | Would not like to have as neighbors: People who speak a different language |
| N | Valid | 83535 | 81097 | 83530 | 79796 | 82236 | 81103 | 82238 | 85061 |
| Missing | 1537 | 3975 | 1541 | 5276 | 2835 | 3969 | 2834 | 10 |

|  |  |  |
| --- | --- | --- |
| **Reliability Statistics** | | |
| Cronbach's Alpha | Cronbach's Alpha Based on Standardized Items | N of Items |
| .731 | .738 | 8 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item-Total Statistics** | | | | | |
|  | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Squared Multiple Correlation | Cronbach's Alpha if Item Deleted |
| Would not like to have as neighbors: People of a different race | 11.53 | 3.418 | .487 | .345 | .693 |
| Would not like to have as neighbors: People who have AIDS | 11.76 | 3.187 | .479 | .264 | .692 |
| Would not like to have as neighbors: Immigrants/foreign workers | 11.59 | 3.372 | .452 | .258 | .698 |
| Would not like to have as neighbors: Homosexuals | 11.84 | 3.279 | .412 | .241 | .707 |
| Would not like to have as neighbors: People of a different religion | 11.53 | 3.403 | .489 | .343 | .692 |
| Would not like to have as neighbors: Heavy drinkers | 12.02 | 3.710 | .194 | .101 | .750 |
| Would not like to have as neighbors: Unmarried couples living together | 11.60 | 3.289 | .497 | .266 | .689 |
| Would not like to have as neighbors: People who speak a different language | 11.51 | 3.531 | .427 | .303 | .704 |

|  |  |  |
| --- | --- | --- |
| **Reliability Statistics** | | |
| Cronbach's Alpha | Cronbach's Alpha Based on Standardized Items | N of Items |
| .896 | .897 | 15 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item-Total Statistics** | | | | | |
|  | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Squared Multiple Correlation | Cronbach's Alpha if Item Deleted |
| Confidence: The Churches | 34.84 | 68.317 | .332 | .152 | .900 |
| Confidence: The armed forces | 34.80 | 66.320 | .517 | .320 | .891 |
| Confidence: The press | 34.40 | 65.783 | .599 | .532 | .888 |
| Confidence: Television | 34.50 | 65.752 | .589 | .522 | .889 |
| Confidence: Labour Unions | 34.31 | 65.671 | .586 | .375 | .889 |
| Confidence: The police | 34.60 | 65.225 | .584 | .482 | .889 |
| Confidence: The courts | 34.57 | 64.414 | .641 | .532 | .886 |
| Confidence: The government (in your nation’s capital) | 34.43 | 64.188 | .646 | .540 | .886 |
| Confidence: Political Parties | 34.12 | 65.298 | .618 | .542 | .887 |
| Confidence: Parliament | 34.28 | 64.191 | .666 | .598 | .885 |
| Confidence: Universities | 34.86 | 66.552 | .550 | .369 | .890 |
| Confidence: Major Companies | 34.52 | 65.873 | .590 | .451 | .889 |
| Confidence: Banks | 34.59 | 65.352 | .579 | .419 | .889 |
| Confidence: Environmental organizations | 34.64 | 66.345 | .550 | .496 | .890 |
| Confidence: Women's organizations | 34.63 | 66.416 | .533 | .473 | .891 |

|  |  |  |
| --- | --- | --- |
| **Reliability Statistics** | | |
| Cronbach's Alpha | Cronbach's Alpha Based on Standardized Items | N of Items |
| .878 | .874 | 8 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item-Total Statistics** | | | | | |
|  | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Squared Multiple Correlation | Cronbach's Alpha if Item Deleted |
| Justifiable: Homosexuality | 24.16 | 216.476 | .707 | .564 | .855 |
| Justifiable: Prostitution | 25.04 | 231.878 | .690 | .504 | .858 |
| Justifiable: Abortion | 24.63 | 220.560 | .747 | .570 | .851 |
| Justifiable: Divorce | 23.43 | 220.288 | .680 | .537 | .858 |
| Justifiable: Sex before marriage | 23.32 | 215.701 | .692 | .542 | .857 |
| Justifiable: Suicide | 25.36 | 237.588 | .645 | .486 | .863 |
| Justifiable: Euthanasia | 24.31 | 223.999 | .652 | .438 | .861 |
| Justifiable: For a man to beat his wife | 25.73 | 268.112 | .293 | .244 | .891 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Inter-Item Correlation Matrix** | | | | | | | | |
|  | Justifiable: Homosexuality | Justifiable: Prostitution | Justifiable: Abortion | Justifiable: Divorce | Justifiable: Sex before marriage | Justifiable: Suicide | Justifiable: Euthanasia | Justifiable: For a man to beat his wife |
| Justifiable: Homosexuality | 1.000 | .614 | .589 | .596 | .626 | .463 | .517 | .130 |
| Justifiable: Prostitution | .614 | 1.000 | .581 | .495 | .512 | .513 | .481 | .330 |
| Justifiable: Abortion | .589 | .581 | 1.000 | .608 | .570 | .578 | .565 | .271 |
| Justifiable: Divorce | .596 | .495 | .608 | 1.000 | .653 | .412 | .504 | .125 |
| Justifiable: Sex before marriage | .626 | .512 | .570 | .653 | 1.000 | .439 | .516 | .140 |
| Justifiable: Suicide | .463 | .513 | .578 | .412 | .439 | 1.000 | .522 | .444 |
| Justifiable: Euthanasia | .517 | .481 | .565 | .504 | .516 | .522 | 1.000 | .230 |
| Justifiable: For a man to beat his wife | .130 | .330 | .271 | .125 | .140 | .444 | .230 | 1.000 |