

Chapter 7

Methods to Provide Evidence for Reliability and Validity

Outline

- Overview of Chapter
 - Correlation Coefficients
- Measurement Reliability
 - Interrater Reliability
 - Internal Consistency
 - Assumptions for Measuring Reliability
- Measurement Validity
 - Overview
 - Evidence Based on Internal Structures
- Problem 7.1 Cohen's Kappa to Assess Reliability with Nominal Data
- Problem 7.2 Correlations and Paired t to Assess Interrater Reliability
 - Interpretation of Output 7.2
 - An Example of How to Write about Problem 7.2
- Problem 7.3 Exploratory Factor Analysis to Assess Evidence of Validity
 - Conditions and assumptions for Factor Analysis
 - Interpreting Output 7.3
 - Example of How to Write about Problem 7.3
- Problem 7.4: Cronbach's Alpha to Assess Internal Consistency Reliability
 - Output 7.4a: Cronbach's Alpha for Revised Competence Scale

- Scale: Alpha for the Revised Competence Scale
 - Interpretation of Output 7.4a
 - Example of How to Write About Problems 7.4a, 7.4b, and 7.4 c
- The Use of Factor Analysis and Alpha to Make Summated Scales
- Interpretation Questions
- Extra SPSS Problems