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The Structural-after-Measurement (SAM) approach: updates and extensions.

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The Structural-after-Measurement (SAM) approach: updates and extensions.

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Abstract

In the Structural-after-Measurement (SAM) framework for Structural Equation Modeling (SEM), parameters of the measurement model are estimated first, followed by the estimation of the structural model parameters. This presentation focuses on the 'local' SAM (LSAM) approach, where summary statistics (mean, covariance matrix) of latent variables are derived in the first step. In this presentation, I will present recent LSAM developments, including: 1) incorporating binary or ordinal indicators in the measurement model, 2) integrating multiple interaction and quadratic terms into the structural model, and 3) applying the infinitesimal jackknife technique to obtain local two-step standard errors. All these extensions have been incorporated in the sam() function, which is part of the R package lavaan.

Keywords

SEM, two-step, latent-interactions, standard-errors

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