***simsem*: SIMulated Structural Equation Modeling in R**

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As the open-source software R gains in popularity as a tool for cutting-edge data analysis, there is an increasing need for a flexible, fast, accessible, and powerful package for carrying out Monte Carlo simulations for structural equation models (SEMs). *simsem* is a new R package that aims to streamline Monte Carlo simulations for SEMs. *simsem* can generate multivariate normal and non-normal data for any single group. *simsem* is especially innovative in the simulation and estimation of missing data: MCAR and MAR missingness can be simulated, as well as several planned missing designs. Model estimation with missing data can be done using both maximum likelihood (FIML) and multiple imputation, including the combination of parameter estimates using Rubin’s Rules. The availability of multiple imputation in simulation software is especially valuable, because there is currently no other software that allows Monte Carlo simulations of data using multiple imputation. Maximum likelihood estimation uses the package *lavaan*, and multiple imputations are performed with the package *Amelia*. *simsem* includes innovative methods for power analyses by continuously varying parameters (e.g., sample size), resulting in power analyses for SEM that require fewer resources than traditional power analyses. We provide example analyses for both power analyses and methodological simulations.