

STATE OF ART: The past, present and future of meta-analytic structural equation modeling

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Meta-analytic structural equation modeling (MASEM), originally referred to as model-based meta-analysis, involves testing structural equation models on meta-analytic data. The technique is being applied in a broad range of fields, including education, psychology, environmental research, information security, medicine, and ecology. In this talk I will outline various methods that can be used to apply MASEM. I will explain how different methods may lead to different (possibly incorrect) conclusions, and consider the pros and cons of the methods currently available. As MASEM is a relatively new technique, there are many opportunities to extend existing approaches, enabling researchers to make better use of available data. Examples of necessary developments include the analysis of dependent effect sizes, handling effect size heterogeneity, synthesizing raw data, analyzing mean structures and evaluating model fit. I will therefore conclude my talk by presenting a research agenda for MASEM.

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