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Computational Aspects, Statistical Algorithms and Software in Psychometrics

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Message from the Guest Editor

Dear Colleagues,

Statistical software in psychometrics has made tremendous progress in providing open-source solutions (e.g., software R, Julia, Python). In this Special Issue, on the one hand, a focus is devoted to computational aspects and statistical algorithms for psychometric methods. For example, shared experiences about efficient implementation aspects or how to handle vast datasets in psychometric modeling are of particular interest. On the other hand, articles introducing new software packages are invited. We would also like to invite researchers to submit articles of software reviews that review one software package or several packages or provide empirical comparisons of several packages. Also welcome are software tutorials that could provide applied researchers guidance about how to estimate recent psychometric models in statistical software. Potential psychometric models include, but are not limited to, item response models, structural equation models, and multilevel models.

Dr. Alexander Robitzsch
Guest Editor



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Special Issue