

Talk on Tuesday, 19. Mar 2024

in HS 424

Start: 10:15 (till 11.30)

The talk will be presented in English

Contributions to basic problems in psychometrics

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This talk discusses procedures of evaluating the empirical adequacy of psychometric models and statistical inference on central assumptions of the models like measurement invariance, item discriminations, item bias or differential item functioning, etc. These involve issues such as the choice and comparison of different competing models, power function and sample size of statistical tests, and the derivation of effect measures to quantify deviations from assumptions of a model. The latter is particularly relevant from the practical point of view in order to determine reliability and accuracy of inferential procedures. Several approaches of choosing and determining an effect are discussed, some of which may be more practical or more readily available in practice of psychometric analyses than others. The focus is on Rasch models and extensions. The procedures are illustrated with practical and real-data examples using respective R packages.

Invited by: Tuulia Ortner