An Anthology of Measurement Models for Psychological Attributes

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16:00 – 17:30
Room 550, Meng Wah Complex, HKU
Chair: Professor Jimmy de la Torre


Abstract:
I will provide an overview of the various measurement models for psychological attributes, including attributes relevant in education, educational testing, sociology, and health research. The models I will discuss are:
1. Classical test theory and Factor analysis
2. Item response theory
3. Latent class analysis
4. Diagnostic classification models
5. Models for pairwise comparison, preferences, response times, and networks

The topics of interest are:
- Similarities and differences between approaches
- Conditions for using an approach and within a particular approach, a specific model
- Theory-driven versus data-driven approaches to test and questionnaire construction
- Applications of tests and questionnaires and suitable models

Literature:

About the speaker:
Klaas Sijtsma is an emeritus professor of methods and techniques of psychological research at Tilburg University. He is the former dean of the School of Social and Behavioral Sciences, rector magnificus of Tilburg University, and president of the Psychometric Society. His research focuses on the measurement of psychological attributes (such as intelligence, personality traits, and attitudes), especially using item response theory and classical test theory and factor analysis. He also studies missing data and outlier problems in test, questionnaire and survey data; the history of psychometrics, psychology, and science; and issues concerning research integrity and questionable research practices. He has published more than 200 papers and book chapters and coauthored three books on the measurement of psychological attributes and one book on research integrity and questionable research practices. Currently, he serves as co-chair of the Committee on Research Integrity at Erasmus University Rotterdam.

~ All are welcome ~

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