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the Teach ECE classroom observation tool -- Chapter 10. Application of topic modeling techniques in meta-analysis studies -- Chapter 11. Validation of the Household Food Security Survey Module (HFSSM) using Factor Analysis and Rasch Modeling -- Chapter 12. Testing CDM local independence assumptions using nested model selection criteria -- Chapter 13. The Impact of Generating Model on Pre-knowledge Detection in CAT -- Chapter 14. Exploring Attenuation of Reliability in Categorical Subscore Reporting -- Chapter 15. Diagnosing skills and misconceptions with Bayesian Networks applied to diagnostic multiple-choice tests -- Chapter 16. Investigating variable selection techniques under missing data: a simulation study -- Chapter 17. Optimal Implementation of Propensity-Score Matching Methods: A Monte Carlo Study on Estimating Binary Treatment Effects on Binary Outcomes -- Chapter 18. Using machine/deep learning algorithms for the fixed effect prediction in non-linear Mixed Effects Models - the mixedML framework -- Chapter 19. Psychometric evaluation of Positive and Negative Symptom Scale (PANSS): Harmonizing Classical Item Response Theory with the Perspective from Network Approach -- Chapter 20. Fitting IRT Diffusion Model to complex cognition response times -- Chapter 21. Empirical evaluations for DIF detection methods -- Chapter 22. Fisher Information-Based Difficulty and Discrimination Measures in Binary IRT -- Chapter 23. Empirical comparisons among models in detecting extreme response styles -- Chapter 24. A Hierarchical Prior for Bayesian Variable Selection in Regression Model -- Chapter 25. Comparing Different Correlation Test Methods -- Chapter 26. Priors in Bayesian Estimation under the Graded Response Model -- Chapter 27. Information matrix test misspecification assessment in cognitive diagnostic models -- Chapter 28. Impact of Ignoring Rater Effects in Objective Structured Clinical Examinations -- Chapter 29. The Gumbel-Reverse Gumbel (GRG) Model for Binary Data: A New Asymmetric Item Response Model -- Chapter 30. Nonparametric estimation of the risk and odds ratio in rare events meta analysis with arm based and contrast based approaches -- Chapter 31. Differential Step Functioning with Scale Purification for Polytomous Items -- Chapter 32. Comparing maximum likelihood and MCMC estimation of the multivariate social relations model -- Chapter 33. Using Mantel-Haenszel for Detecting Testlet Effects: Testing it All at Once -- Chapter 34. Identifiability Conditions in Cognitive Diagnosis: Implications for Q-Matrix Estimation Algorithms -- Chapter 35. Psychometric Perspectives on Modeling and Assessing Synergies -- Chapter 36. Global validity of assessments: Location and currency -- Chapter 37. Gaussian graphical model for evaluating local item dependency in response times -- Chapter 38. Assessment Engineering Meets Generative AI: Unlocking New Opportunities for Digital Assessment -- Chapter 39. Bayesian Mixture Multilevel Vector Autoregressive (B-MMVAR) Modeling -- Chapter 40. Enhancing Learning and Assessment: Exploring the Potential of Performance Factor Analysis in attribute-oriented performance and difficulty parameters estimation -- Chapter 41. DIF Detection in a Response Time Measure: An LRT Method -- Chapter 42. Nonparametric Estimation of CATE with Cluster-Robust Confidence Bands -- Chapter 43. A Causal Mediation Framework for Investigating Treatment Effects in Longitudinal Studies -- Chapter 44. Are we playing the same game: Translating fairness content -- Chapter 45. Revisiting the 1PL-AG item response model: Bayesian estimation and application -- Chapter 46. Maximum Likelihood Estimation using a Possibly Misspecified Parameter Redundant Model -- Chapter 47. Comparing non-parametric estimations of treatment effect heterogeneity in the context of clustered data -- Chapter 48. Extreme and Midpoint Response Styles:

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Sommario/riassunto

This book includes presentations given at the 88th annual meeting of the Psychometric Society, held in Maryland, USA on July 24–28, 2023. The proceeding covers a diverse set of psychometric topics. The topics include, but are not limited to item response theory, cognitive diagnostic models, Bayesian estimation, validity and reliability issues, and several applications within different fields. The authors are from all over the world, they work in different psychometrics areas, as well as having diverse professional and academic experiences.
