



Psychoco 2019

International Workshop on Psychometric Computing

February 21-22, 2019

Faculty of Education, Charles University, Prague

Thursday, February 21

Chair: Patrícia Martinková

12:30 *Welcome*

12:45 Elena A. Erosheva Partial-Mastery Cognitive Diagnosis Models

13:30 *Coffee break*

Chair: Carolin Strobl

14:00 Achim Zeileis colorspace: A Toolbox for Manipulating and Assessing Color Palettes for Statistical Graphics

14:18 Michela Battauz Regularized Estimation of the Nominal Response Model

14:36 Alexander Robitzsch Regularized Moderated Nonlinear Factor Analysis: The R Package mnlfa

14:54 Charles Driver Hierarchical State Space Modelling with ctsem

15:12 Patrícia Martinková Simulated and Real Data Examples for Teaching Psychometrics

15:30 *Coffee break with information on the Center for Educational Measurement and Psychometrics*

Chair: Yves Rosseel

16:00 Axel Mayer The EffectLiteR Package for Analyzing Causal Effects Using Structural Equation Modeling

16:18 Heidelinde Dehaene Extending the Wilcoxon-Mann-Whitney Test for Latent Variables

16:36 Ines Devlieger Recent Developments in Factor Score Regression

16:54 Matthias A. Burzler How to Assess Reviewer Rankings? A Theoretical and an Applied Approach

17:12 Debby ten Hove Applying Generalizability Theory to Interdependent Network Data: Estimating Interrater Reliability

17:30 *Short break*

Chair: Patrícia Martinková

17:45 Lubomír Štěpánek Various Generalizations of Upper-Lower Index and Their Critical Values

18:03 Viktoriia Dobriak Detected Item Bias in Ukrainian National Test

18:21 Mariia Mazorchuk Experience of Using the R Software Environment for the National Assessment Data Processing

18:39 Ivailo Partchev dexterMST: An R Package to Manage and Analyze Data from Multistage Tests

20:00 *Dinner*

Friday, February 22

Chair: Elena A. Eroshova

- 09:00 Timo von Oertzen In Defense of the Flat Prior, at Least for SEM Estimates and Inferences
09:18 Fabian Dablander Bayesian Vector Autoregressive Models for Structure and Parameter Learning
09:36 Don van den Bergh Graphical Linear Regression to Combat Multicollinearity
09:54 Alexandra Sarafoglou Bayes Factors for Testing Ordinal Constrained Hypotheses in Categorical Data
10:12 Anikó Lovik Congruence-Based Factor Matching for Exploratory Factor Analysis

10:30 *Coffee break*

Chair: Michela Battauz

- 11:00 Stella Bollmann Misspecification of Distribution in Multigroup Latent Variable Models
11:18 Rudolf Debelak Measurement Invariance Tests for IRT Models Estimated by Bayesian MAP
11:36 Adéla Drabinová Nonparametric Comparison of Characteristic Curves for DIF Detection
11:54 Stefano Noventa On a Generalization of Local Independence in Item Response Theory
12:12 Charlotte Tanis On the Relation between Item Response Theory and Network Models

12:30 *Lunch break*

Chair: Achim Zeileis

- 14:00 Renata Yokota addhaz: Contribution of Chronic Diseases to the Disability Burden Using R
14:18 Laura Kolbe A Generalized Polychoric Correlation Coefficient Assuming an Underlying Bivariate Mixture Distribution
14:36 Elissa Burghgraeve James-Stein Estimators in Factor Analysis
14:54 Benjamin Becker eatDB: A Spreadsheet Interface to Relational Data Bases
15:12 Ivan Ropovik Detection of Data Fabrication from Reported Results

15:30 *Coffee break*

Chair: Florian Wickelmaier

- 16:00 Xinru Li A Tree-Based Approach for Exploring Moderation Effects in Meta-Analysis: The R Package metacart
16:18 Marjolein Fokkema Recursive Partitioning of Growth Curve Models Using LM(M) Trees
16:36 Claudia Glemser Discrepancies in the Structural Change Test in Applications to the BTL and MPT Model Related to the Covariance Estimator
16:54 Juan Claramunt Qualitative Treatment Interaction Trees, Version 2.0
17:12 Dries Debeer Conditional Permutation Importance Revisited

17:30 *Closing*

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