



Psychoco 2018

International Workshop on Psychometric Computing

February 15-16, 2018

University of Tuebingen, Germany

Thursday, February 15

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|-------|---|---|
| 13:30 | Welcome | |
| 13:45 | Daniel Heck | TreeBUGS: Hierarchical Multinomial Processing Tree Models in R |
| 14:30 | Florian Wickelmaier, Achim Zeileis | Using Manifest Covariates to Account for Latent Classes in Multinomial Processing Tree Models |
| 14:45 | Jürgen Heller | Knowledge Structure Theory for Polytomous Items |
| 15:15 | Yves Rosseel, Ines Devlieger | Why We May Not Need SEM after All |
| 15:45 | Martin Lages | Tools for Teaching Quantitative Thinking: The TquanT Erasmus+ project |
| 15:55 | <i>Coffee break w/Shiny apps from the TquanT project (Martin Losert, Claudia Glemser)</i> | |
| 16:30 | Angelika Stefan, Quentin Gronau, Felix Schönbrodt, Eric-Jan Wagenmakers | Planning Experiments the Bayesian Way: A Shiny App for Bayes Factor Design Analysis |
| 17:00 | Rudolf Debelak, Lennart Schneider, Achim Zeileis, Carolin Strobl | Score-Based Measurement Invariance Tests for IRT Models Estimated by MML |
| 17:30 | Georg Hosoya | Entropy Based Effect Sizes for Logistic Regression Models |
| 20:00 | <i>Dinner (Wurstküche)</i> | |

Friday, February 16

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| 09:00 | Martin Lages, Pavel Kounov, Rodrigo Mella, Franziska Klein | Applying Hierarchical Models to Psychophysical Data: Temporal Context Affects Visual and Auditory Duration Discrimination |
| 09:30 | Harald Baayen, Maike Tibus, Philipp Mock, Peter Gerjets | Assessing Within-Experiment Subject Variability with Generalized Additive Mixed Models |
| 10:00 | Ivailo Partchev | Item-Total Regressions in Dexter: Continued and with Slides |
| 10:30 | <i>Coffee break</i> | |
| 11:00 | Carolin Strobl, Julia Kopf, Raphael Hartmann, Achim Zeileis | Anchor Point Selection – An Approach for Anchoring without Anchor Items |
| 11:30 | Lennart Schneider, Phil Chalmers, Rudolf Debelak, Ed Merkle | Applying Vuong Tests to Item Response Models Using mirt and nonnest2 |
| 12:00 | Michela Battauz | equateMultiple: An R Package for Equating Multiple Forms |
| 12:30 | <i>Lunch break</i> | |
| 14:00 | Thomas Glassen, Timo von Oertzen | How to Fast Find the Mean in a Partition Distribution |
| 14:30 | Lisa Schlosser, Torsten Hothorn, Heidi Seibold, Achim Zeileis | Distributional Regression Forests for Probabilistic Modeling and Forecasting |
| 15:00 | Maike Tahden, Anja Gieseler, Hans Colonius | Application of Random Forest Analysis to Characterize Individuals' Benefit of Hearing Aids |
| 15:30 | Marjolein Fokkema | Prediction Rule Ensembles for Multilevel Data |
| 16:00 | <i>Coffee</i> | |
