



PARALLEL SESSIONS

Day 1 (Wednesday, 27th July)

Parallel Sessions 1 9.00 – 10.30	<p>Session 1: Methodological designs <i>Chair: Mirjam Moerbeek</i> Room Neptuno</p>	<p>C27 The design of cluster randomized trials with random cross-classifications C264 Gender roles modulate lateralization of event-related brain responses to faces C342 Evaluating the promise of research methods</p>
	<p>Session 2: Test development <i>Chair: Juan R. Barrada</i> Room Discóbolo</p>	<p>C179 Dimensionality of the Perceived Stress Scale and implications for scoring C227 Calibration of a new item pool based on the Big Five: An application of the bi-factor model C298 Psychometric validation of the interpersonal communication competence self-assessment C317 A mixture Rasch Poisson counts model applied to a reading speed test</p>
	<p>Symposium 8: Methodological advances in the psychometric analysis of responses and response times <i>Chair: Dylan Molenaar</i> Room Apolo</p>	<ul style="list-style-type: none"> • Modelling SATF and CAF slopes between and within experimental time-limit conditions of speeded tests • Dichotomizing response times -- from 'Schnapsidee' to 'recommended method' • Posterior predictive checks for conditional independence between response time and accuracy • What can we learn from conditional dependence between response time and response accuracy? • A dynamic IRT modeling approach to the analysis of responses and response times

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Parallel Sessions 2 11.00 – 12.30	<p>Symposium 1: Assigning test scores: Recent methodological advances in analyzing educational test data</p> <p><i>Chair: Carmen Köhler</i> Room Apolo</p>	<ul style="list-style-type: none"> • Active in navigation = better in evaluation? What process data can tell us about competencies in evaluating online information • Detection of random item parameter variance with Multilevel Logistic Regression • Absolute and relative measures of instructional sensitivity • Practical significance of item misfit in educational achievement tests.
	<p>Session 3: Software demonstrations</p> <p><i>Chair: Yves Rosseel</i> Room Discóbolo</p>	<p>C41 Psychological test toolbox software demonstration: A new tool to compute factor analysis controlling response bias</p> <p>C55 <i>RESTRIKTOR</i>: Beyond classical null-hypothesis testing</p>
	<p>Session 4: Data Analysis (I)</p> <p><i>Chair: Charles Driver</i> Room Neptuno</p>	<p>C34 Does assessing moderated mediation in linear models require fewer confounding assumptions than assessing mediation?</p> <p>C35 Using continuous time dynamic models to understand the time course of interventions</p> <p>C50 On the modeling of the ceiling effect in confirmatory factor analysis</p> <p>C62 Latent State-Trait models for longitudinal family data: Investigating consistency in perceived support</p>

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Parallel Sessions 3 15.30 – 17.00	<p>Symposium 2: Entrepreneurial personality assessment: current perspectives and future trends</p> <p><i>Chair: José Muñiz</i> Room Apolo</p>	<ul style="list-style-type: none"> • Assessment of enterprising personality: Where we are and where we are going • Assessing adult entrepreneurs: Adaption of the BEPE (<i>Batería para la Evaluación de la Personalidad Emprendedora</i>) questionnaire into adult population • Assessment of enterprising personality by implicit association test: A Multifactor Trait IAT • Suitability of Multidimensional Item Response Theory models for the assessment of entrepreneurial personality
	<p>Session 5: Survey Methodology</p> <p><i>Chair: Peter Lugtig</i> Room Discóbolo</p>	<p>C37 Nurse effects in survey biomarkers</p> <p>C53 Do interviewers' attitudes towards sharing personal information affect the consent rate they achieve?</p> <p>C181 Using paradata to explain attrition in the German internet panel</p> <p>C254 Satisficing or insufficient adjustment? Uncovering the process underlying online survey response</p> <p>C343 Differential Item Function in educational surveys. It's there and it should be there!</p>
	<p>Session 6: Methodological applications (I)</p> <p><i>Chair: Wayne Velicer</i> Room Neptuno</p>	<p>C32 Estimation of the proportion of underachieving students in compulsory secondary education in Spain: An application of the Rasch model</p> <p>C39 Pre-entry characteristics and trajectory of university dropout in Thailand: A discrete time survival analysis</p> <p>C42 Investigating the mechanisms of smoking behavior change: Single mediation models for contemplators</p>

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Parallel Sessions 4 9.00 – 10.30	Session 7: Statistical foundations <i>Chair: Rolf Steyer</i> Room Apolo	C136 A IRT latent state model with item specific variables C199 Extending tests of theory-based quantitative predictions (TTQP) to exercise and stress C301 20 years of Psychological Methods (PM)
	Session 8: Data Analysis (II) <i>Chair: Ines Devlieger</i> Room Discóbolo	C64 Bayes factors for stochastic orderings C83 Factor Score Regression: An alternative for SEM C134 A multilevel graded-response model for cross-classified multi-trait-multi-rater data C202 Measurement error and person-specific reliabilities in multilevel autoregressive modeling
	Session 9: Educational Measurement <i>Chair: Francisco J. Abad</i> Room Neptuno	C142 A simple and efficient metropolis sampler for educational measurement C255 Iteration of partially specified target matrices: Application to the bi-factor case C278 Psychometrics of an objective structured clinical examination: Reliability, confidence, and performance

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Parallel Sessions 5 11.00 – 12.30	<p style="text-align: center;">Symposium 11: Educational Assessment in the international context: Challenges of all parties involved</p> <p style="text-align: center;"><i>Chair: Isabel Benítez</i> Room Discóbolo</p>	<ul style="list-style-type: none"> • School efficiency measurement based on results from PISA for schools pilot study 2013-2014 in Spain • Precision of measurement in PISA for schools Spanish-pilot • Two statistical tools to study the differences in academic performance between countries: 15 years of empirical evidence from PISA project • PISA-based test for schools: What can we learn from the most efficient schools? • Implementation of value-added modeling in the assessment of secondary schools
	<p style="text-align: center;">Session 10: Methodological Applications (II)</p> <p style="text-align: center;"><i>Chair: Tamas Rudas</i> Room Neptuno</p>	<p>C98 Gender pay gap in HR management - How much is it really, and why?</p> <p>C169 Model based analysis of incomplete data with non-ignorable missing data mechanism</p> <p>C214 Differentiated assessment of mathematical competence with multidimensional adaptive testing</p> <p>C251 Comparing Item Response Theory models for non-ignorable missing data</p>
	<p style="text-align: center;">Symposium 3: Advances in Meta-analysis</p> <p style="text-align: center;"><i>Chair: Julio Sánchez-Meca</i> Room Apolo</p>	<ul style="list-style-type: none"> • Random-effects meta-analysis when normality assumption is not met* • A comparison of approaches for quantifying heterogeneity in meta-analysis • To pool or not to pool? The issue of the estimation of the residual between-studies variance with categorical variables in meta-analysis • Methodological improvements in training programs • The role of the methodological quality of primary studies in systematic reviews: A meta-review

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Parallel Sessions 6 12.30 – 14.00	Session 11: Psychometric cognitive models <i>Chair: Miguel A. Sorrel</i> Room Discóbolo	C60 Stochastic curtailment using the isotonic sequential regression model C231 Two-step likelihood ratio test for model comparison in cognitive diagnosis models C232 Computerized Adaptive Testing for cognitively based multiple-choice data C303 Test construction for cognitive diagnosis using the global discrimination index C331 A method for evaluating the explanatory power of the Q-matrix in the linear logistic test model
	Session 12: Meta-analysis <i>Chair: Belén Fernández-Castilla</i> Room Neptuno	C256 Cross-classified meta-analytic models C294 The importance of the meta-analysis restricted to studies with statistically significant results
	Symposium 4: Categorical data in the analysis of research in Giftedness and Talent <i>Chair: África Borges</i> Room Apolo	<ul style="list-style-type: none"> • Differences in mechanisms of social interaction of gifted children based on peer acceptance • Analysis of the level of verbal creativity in adolescents according to their intelligence • A qualitative study of the educative response of Mexican teachers of outstanding students • Program evaluation through activities

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Parallel Sessions 7 16.30 – 18.00	Symposium 5: Methodology of Interdisciplinary Research (I) Where do we stand? <i>Chair: Hilde Tobi</i> Room Neptuno	<ul style="list-style-type: none"> • The CREAM European Project: exploring the creative brain from a multidisciplinary perspective • Developing creativity in STEM education towards sustainability • Developing process-based measurements to evaluate collaboration in innovation team interactions • Pain management in German nursing homes – An interdisciplinary approach • Geometric design by interactive and evolutionary design methods
	Session 13: IRT models <i>Chair: Timo Bechger</i> Room Apolo	<p>C139 IRT based equating: About equating error and the equating design</p> <p>C186 Measurement of research performance capacity using bibliometric data – A Bayesian Rasch model for count data</p> <p>C276 Comparison of the capacity of three nonparametric person-fit indexes to detect different aberrant response patterns on real data</p> <p>C334 Development of a descriptive fit statistic for the Rasch Model</p>
	Symposium 7: Scaling of competence test data in large scale assessments: Accounting for missing values, longitudinal, and hierarchical data <i>Chair: Steffi Pohl</i> Room Discóbolo	<ul style="list-style-type: none"> • Using response times to deal with missing responses due to time limits in competence tests • Missing values in IRT-analyses of large-scale assessments: Do model-based approaches perform well under different underlying missing values processes? • Investigating anchor item selection methods under various conditions of systematic DIF • Tracking the true link: A simulation study on linking Rasch-scaled longitudinal competence data in a large scale framework • Efficient measurement of change: Designs to link paper-based fixed-form test and computer-based multi-stage tests • Disentangling interviewer and area effects in large scale educational assessments through multilevel IRT-models

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Parallel Sessions 8 9.00 – 10.30	Symposium 6: Methodology of Interdisciplinary Research (II) What about the future? <i>Chair: Hilde Tobi</i> Room Neptuno	<ul style="list-style-type: none"> • The plurality of research methods in interdisciplinary design thinking creativity studies and the challenge of building up joint knowledge • Interdisciplinary measurement: A systematic review of the case of sustainability • The dynamic definition of creativity: A starting point for the multidisciplinary science of creative thinking • Towards the interdisciplinary measurement of urban sustainability: A European Delphi study
	Session 14: Simulation <i>Chair: Matthias Kaeding</i> Room Discóbolo	C63 Multiple imputation by predictive mean matching when sample sizes are small C108 Fast, approximate MCMC for Bayesian analysis of large data sets: A design based approach C224 Estimating causal mediated effects in the presence of baseline and post-treatment confounders: A simulation study C293 Effects of systematic measurement error on the results of Propensity Score Matching. A simulation study
	Symposium 9: Going Beyond Simple OLS Regression Coefficients: Novel Approaches for Analyzing Effects in Complex Models with Latent Variables and Interactions <i>Chair: Axel Mayer</i> Room Apolo	<ul style="list-style-type: none"> • Average effect of a binary treatment variable on a latent outcome variable measured by binary indicators • Model-based composite scores as dependent and independent variables in effect analyses • The problem of re-aggregation in logistic regression • The probabilistic index as an effect size in a regression context • Analyzing effects of interventions in complex survey designs: A comparison of six approaches

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Parallel Sessions 9 11.00 – 12.30	<p style="text-align: center;">Symposium 10: Methodological Innovations in programs evaluation: Quality and effectiveness from evidence</p> <p style="text-align: center;"><i>Chairs:</i> <i>Salvador Chacón-Moscoso and Susana Sanduvete-Chaves</i></p> <p style="text-align: center;">Room Apolo</p>	<ul style="list-style-type: none"> • The development of a checklist to enhance methodological quality since 2000 • A simulation study of threats to validity in quasi-experimental designs: Interrelationship between design, measurement, and analysis • Detection of T-Patterns as an appropriate tool for searching efficacy in program evaluations of specific psychological interventions • Test construction process for measuring the quality of the labor climate in the Emergency Department of a healthcare organization
	<p style="text-align: center;">Session 15: Psychometric foundations</p> <p style="text-align: center;"><i>Chair: Ana Hernández</i></p> <p style="text-align: center;">Room Discóbolo</p>	<p>C78 The item-position effect in the Raven's Advanced Progressive Matrices and its relationship to impulsivity</p> <p>C89 A new model for acquiescence at the interface of Psychometrics and Cognitive Psychology</p> <p>C121 Resolving the test fairness paradox by reconciling predictive and measurement invariance</p> <p>C182 Assessing test quality: A revision of the Spanish test review model</p>
	<p style="text-align: center;">Session 16: Data Analysis (III)</p> <p style="text-align: center;"><i>Chair: Eduardo Estrada</i></p> <p style="text-align: center;">Room Neptuno</p>	<p>C252 How to evaluate the effectiveness of an intervention in a randomized controlled trial from the individual change perspective</p> <p>C280 Self organizing maps as a novel tool for data analysis in education</p> <p>C282 Difficulties and solutions in the construction of an instrument to detect teen sexting</p>

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Parallel Sessions 10 12.30 – 14.00	Session 17: Observational and Quasi-experimental designs <i>Chair: Yasemin Kisbu-Sakarya</i> Room Neptuno	<p>C225 Comparative regression discontinuity: Results of a within study comparison</p> <p>C263 Life satisfaction and different domain satisfaction of microentrepreneurs in Ecuador: Assessing the relationship between access to credit and subjective well-being</p> <p>C44 Identifying ergonomic issues in a moving food parlour in Western India through direct observation and activity analysis</p> <p>C300 Bargaining and gender perception of microenterpreneurs in Ecuador: Entrepreneurial decision-making patterns</p>
	Session 18: Psychometric latent structures <i>Chair: Javier Revuelta</i> Room Discobolo	<p>C226 A Monte Carlo study of recovery of weak factor loadings when adding the mean structure in confirmatory factor analysis</p> <p>C228 Assessment of Horn's parallel analysis with bi-factor and second-order models</p> <p>C261 Dimensionality assessment for a Nominal Item Response model in a Bayesian framework</p>
	Symposium 12: Challenges and benefits of mixed methods studies: Contributions of mixed designs in diverse psychological areas <i>Chair: Isabel Benítez</i> Room Apolo	<ul style="list-style-type: none"> • A mixed methods review: Integrating quantitative and qualitative evidence about cognitive-motor interference in gait in multiple sclerosis patients • An exploratory and sequential qual-quant mixed method design for the validation of moral emotion measures • Quantitizing qualitative data: A challenge of mixed methods • Mixed methods designs for obtaining validity evidence



POSTER SESSIONS

Day 1 (Wednesday, 27th July)		
Poster Session 1 10.30-11.00	Applied Methodology Coffee-break Hall	<ul style="list-style-type: none"> • P40 Proposal of a SEM model on the relationship between stress, burnout and depression in a sample of athletes • P54 Evaluation of a new care model in Psychiatry in Germany: A retrospective cohort study using the claims data of patients with schizophrenia • P171 T-patterns, lag sequential analysis and polar coordinate analysis: Observational study in fencing • P183 The interplay of affective experiences and daily events within person: Evidence from Gaussian and Poisson vector auto regressions • P184 Methodological complementarity for studying daily life: Classification criteria • P217 Multilevel approach for understanding adolescents' self-concept and attitude towards school, and their influence on academic achievement • P229 Stability and consistency of attachments in dyads of parents and emerging adults • P259 Phenomenological analysis for the study of emotional concepts in a sample of undergraduate students • P260 The longitudinal design research in an observational study for measurement the change and differences observed in childhood • P262 Integrating categorical and continuous data to analyze the effects of a varied exercise workout program in adult women: a methodological challenge • P288 Comparative analysis on possession time and zone in successful and unsuccessful elite teams • P339 Financial transactions: Comparing T-Pattern analysis with conventional methods • P341 Meaning scientific and technical knowledge versus knowledge popular p value in university professors and students
Day 2 (Thursday, 28th July)		
Poster Session 2 10.30-11.00	Psychometrics Coffee-break Hall	<ul style="list-style-type: none"> • P31 Psychometric basic requirements: Calibration of mathematical performance instrument • P36 Continuous time IRT models • P57 Analysing Likert-type scales using Generalized Linear Mixed Models: A simulation study • P79 Application of situational strength to the construction of personality measurement items • P119 Gender-based measurement invariance of a scale for assessing entrepreneurial orientation in the educational field • P138 A multilevel MTMM latent state-trait graded response model for interchangeable and structurally different methods • P279 Spanish adaptation of the Attitudes toward domestic violence scale • P299 Differential item functioning of Pisa for schools mathematics items • P321 Nonparametric statistics and validity in QB64: RANDOMCO.BAS and PARAMENO.BAS • P324 RELIABIL.BAS 1.0: Coefficients alpha, L-alpha and omega, as latent class detectors in QB64 • P327 Elaborate and amends questions of Methodology Bases with answers T/F in QB64 • P328 Program MTP.BAS v. 1.4 (Multi Personality Questionnaire) for answers T-F in QB64 • P330 WEIGHT.BAS v. 3.9: questionnaire in QB64 and psychological rules, medical and social

Day 3 (Friday, 29th July)

Poster Session 3

10.30-11.00

Statistical methods

Coffee-break Hall

- P33 Equivalence test of variances and sample size calculation
- P52 Applying Pearl's general causal effect formula to Gaussian linear structural equation models
- P56 Robustness of ANOVA with non-normally distributed data
- P120 Tests of indistinguishability between roles in small clusters
- P207 Gaussian process panel modeling – A new, flexible analysis method for panel data
- P220 It's not that bad: selective publishing and p-hacking in Journal of Experimental Psychology: General (1994-2014)
- P223 The effects of asymmetry and direction on the level of statistical power using the modified Brown-Forsythe and mixed-model approaches in split plot designs
- P285 Power analysis to detect the treatment effect in longitudinal studies when the change over time is linear and heterogeneous errors
- P296 Red card or yellow card. Missing data or card to the end
- P297 The elimination of subjects. The same practice to solve different problems
- P318 MEANDESV.BAS v. 1.3: measures of central tendency and dispersion in QB64
- P338 Maintenance/variability of hidden detected relations from two data analysis techniques: T-Patterns and polar coordinates