

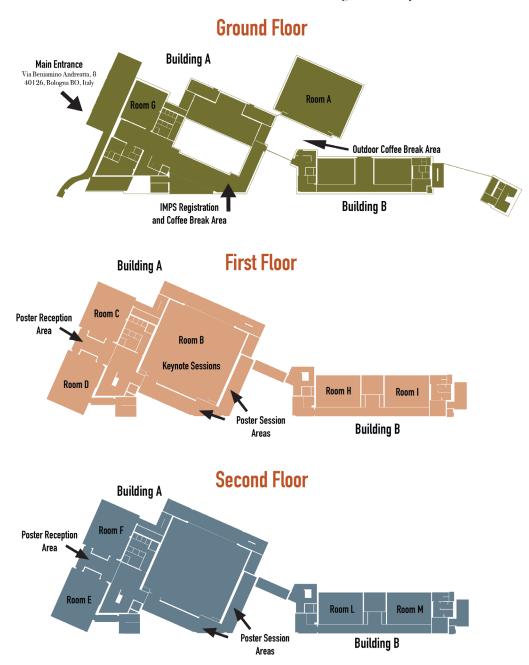
IMPS 2022 BOLOGNAITALY

University of Bologna

July 11-15 Schedule at a Glance

IMPS 2022 Map

University of Bologna - Belmeloro Building Via Beniamino Andreatta, 8, 40126, Bologna BO, Italy



IMPS Registration Hours of Operation

Belmeloro Building (Ground Floor)

psychometricsociety.org/imps2022-venue

Via Beniamino Andreatta, 8, 40126 Bologna BO, Italy

Wednesday, July 13:

Thursday, July 14:

Friday, July 15:

Monday, July 11:

Tuesday, July 12:

| 09:0 | 0 - 15:30 | 09:00 - 16:00 | 09:00 - 17:00 | 09:00 - 12:30 | 09:00 - 15:00 |
|---|---|---|--|--|---|
| | | Mc | onday • July 11 | - | |
| Full-Day Short | Short Course #1: Data with Di Speakers: Prof. Em & P 10:00 - 11:30 • Cou | | Room C (First Floor) Short Course #2: Machine Learning pretable Machine Learning w Speakers: Prof. Carolin Stro Prof. Mirka Henninger, & Prof. Yannio 10:00 - 11:30 • Course | vith R Str bbl, ck Rothacher 10:0 | Room F (Second Floor) Short Course #3: SimSEM-in-R: Simulating ructural Equation Models Using lavaan and simsem Speakers: Prof. Terrence D. Jorgensen 00 - 11:30 • Course |
| Courses | 11:30 - 11:50 • Coff 11:50 - 13:20 • Cou 13:20 - 14:30 • Lund 14:30 - 16:00 • Cou 16:00 - 16:20 • Coff 16:20 - 17:30 • Cou | rse ch on Your Own rse ee Break rse | 11:30 - 11:50 • Coffee Break 11:50 - 13:20 • Course 13:20 - 14:30 • Lunch on Your Own 14:30 - 16:00 • Course 16:00 - 16:20 • Coffee Break 16:20 - 17:30 • Course | 11:5 13:2 14:3 16:0 | 30 - 11:50 • Coffee Break 50 - 13:20 • Course 20 - 14:30 • Lunch on Your Own 30 - 16:00 • Course 30 - 16:20 • Coffee Break 20 - 17:30 • Course |
| Half-Day Short Courses (AM ONLY) 10:00 - 13:20 or (PM ONLY) 14:30 - 17:40 | Short Course #4: I | ee Break | Room E (Second Floor) Short Course #5: Computerized Ad ing and Multistage Testing w (AM ONLY) Speakers: Prof. Alina A. von D & Prof. Duanli Yan 10:00 - 11:30 • Course 11:30 - 11:50 • Coffee Break 11:50 - 13:20 • Course | vith R Davier 14:3 16:0 | Room D (First Floor) ort Course #6: Understanding SEM: Where do all the numbers come from? (PM ONLY) Speakers: Prof. Yves Rosseel 30 - 16:00 • Course 00 - 16:20 • Coffee Break 20 - 17:40 • Course 00 - 17:40 • Course |

- IMPS Coffee Breaks are located on the Ground Floor of the Belmeloro Building near the IMPS Registration Desk area. -

Tuesday • July 12

| | Room B (First Floor) | | | | | | | |
|---------------|--|---|--|---|--|--|--|--|
| 09:30 - 09:45 | | Welcome | | | | | | |
| | Chair: Prof. Irini Moustaki, Prof. Silvia Cagnone, Prof. Marilena Pillati, and Prof. Carlo Trivisano | | | | | | | |
| | Room B (I | First Floor) | Room A (Ground Floor) | | | | | |
| 09:50 - 10:35 | Institute Tally 1 | WITHDRAWN | | Pr. Tracy Sweet for social network data | | | | |
| 0,000 | | WINDRAWN | Chair: Dr. Edgar Merkle | | | | | |
| | Tue la | | | | | | | |
| 10:35 - 10:55 | IWO LO | | nd Floor); Outside area between Buildings A & B (Groun | a Floor) | | | | |
| | | Coffee | e Break | | | | | |
| | Room B (First Floor) | Room A (Ground Floor) | Room C (First Floor) | Room D (First Floor) | | | | |
| 10:55 - 12:10 | <section-header>Symposium: New lights on dynamic models for intensive time series and panel data <i>Chair: Dr. Janne Adolf</i>Improved estimation of autoregressive models through contextual impulses and robusts dest through contextual impulses and robusts on the series and robusts of time series Dr. Janne AdolfInduding context and serial dependence in regression models of time series Dr. Sigert AriensInduding context and serial dependence in regression models of time series Dr. Sigert AriensInduding context and serial dependence in regression models of time series Dr. Sigert AriensInduding context and serial dependence in regression models of time series Dr. Sigert AriensInduding context and serial dependence in regression models of time series Dr. Sigert AriensInduding context and serial dependence in regression models of time series Dr. Sigert AriensInduding context and serial dependence in series Dr. Sigert AriensInduding context and serial dependence in series Dr. Anja Ernst</br></section-header> | <section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header> | <section-header><section-header><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></section-header></section-header> | <section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header> | | | | |
| | Session: M | o-stage meta-analysis with individual participant data | | sal Inference I /icher Bergsma ices of factor scores and data mining methods butions | | | | |

Dependent effect sizes in MASEM: The current state of affairs Ms. Zeynep Bilici

Using meta-analytic structural equation modeling to synthesize randomized controlled trials Ms. Hannelies de Jonge

| | On You | ur Own | | Restaurant: Scuderia | | | |
|---------------------------------------|--|----------------|---|---|---|---|--|
| TUESDAY CONTINUED 12:10 - 13:30 | Attended | e Lunch | | Graduate Student Luncheon Mixer scuderia.futurefood.network Piazza Giuseppe Verdi, 2, 40126 Bologna BO, Italy This event is exclusively for graduate students and will be hosted by the Psychometric Society | | | |
| | Room B (First Floor) | | | | | | |
| 13:30 - 14:30 | Fu | | her remarks on evidence and i | Robert Mislevy inference in educational assess lina von Davier | sment | | |
| | | | Room B (| First Floor) | | | |
| 14:30 - 14:50 | | | Group Photo es welcome! | | | | |
| | Room B (First Floor) | | Room A (0 | Ground Floor) | | Room C (First Floor) | |
| | Symposium: Advances in using response times for understanding between- person differences and within-person changes in test-takers' behavior Chair: Prof. Steffi Pohl and Ms. Esther Ulitzsch | | understand online m | Symposium: Information warfare: quantitative methods to understand online manipulation campaigns Chair: Dr. Hudson Golino | | Symposium: Advances in methods for sample size determination in the social sciences Dr. Ginette Lafit | |
| | What changes in Diffusion IRT model parameters can tel speed-accuracy tradeoff Mr. Tobias Alfers | l us about the | Playing HAVOK with the chaos caused by internet trolls Ms. Elena Martynova | | A general Monte Carlo method for sample size analysis in the context of network models Mr. Mihai Constantin | | |
| | A sequential Bayesian changepoint detection procedure for aberrant behaviors in computerized testing Dr. Jing Lu | | US elections models | | | lysis methods for mediation and moderated mediation Fossum | |
| | Using item response times to explain group differences parameter Dr. Dylan Molenaar | in item | Metric invariance: Differences between Left and Right-wing Russian trolls and the US elections Fast power computations in multiler longitudinal designs Ms. Laura Jamison Dr. Ginette Lafit | | | | |
| | Modeling the process underlying solution and non-soluti with a non-linear ballistic accumulator model Mr. Sören Much | ion behavior | | | Predictive acc Mr. Jordan Rev | uracy analysis: A new sample size planning method | |
| | SAT in psychometric assessments: a latent growth approach Mr. Augustin Mutak | | | | | | |
| 14:50 - 16:05 | Room D (First Floor) | Roc | om G (Ground Floor) | Room E (Second F | loor) | Room F (Second Floor) | |
| | | | <mark>: Large-scale assessments</mark> hair: Dr. Yunxiao Chen | Session: Rater Models and R Chair: Dr. Patricia Mart | | Session: Dynamic SEM Chair: Dr. Joran Jongerling | |
| | invariance in Bayesian IRTIongitudinaMr. Keishi NomuraDr. Youn-JerBayesian evaluation of approximate measurement invarianceConcordane Dr. Liqun YirMs. Dandan TangConsequen for the esti dependence detection in CFA Ms. Xinyu QiaoMotivation | | f common items using DIF on TIMSS datasets Choi Latent thresholds in class statistical model Mr. Giuseppe Mignemi | | n tasks: A novel | Individual dynamic models using regularized hybrid unified structural equation modeling Ms. Ai Ye | |
| | | | for large scale assessments | Prof. Cees Glas math with ILD Prof. Cees Glas Prof. Augustin Kelava Examining rater bias using IRT cross-classified multilevel modeling Early response to treat nervosa: A dynamic st Mrs. Nuria Real-Brioso | | | |
| | | | es of hierarchical data structures ation of plausible values | | | Early response to treatment in anorexia nervosa: A dynamic study Mrs. Nuria Real-Brioso | |
| | | | | Evaluating quality of selection p binary classification framework: to inter-rater reliability Mr. František Bartoš | | The growth components approach: Recent developments, extensions, and applications Prof. Axel Mayer | |
| | An iterative approach to flexible multivariate prior elicitation Ms. Sydne McCluskey | | a mic borrowing with arge-scale assessment data aplan | A simulation-based test to inves interrater agreement for binary Dr. Nadja Bodner | | | |

| Ink functions and structural models Chair: Prof. David Kaplan Chair: Prof. Terry Ackerman Palazzo Poggi Museum Palazzo Poggi Museum 17:30 - 19:00 IMPS Welcome Reception sma.unibo.it/it/il-sistema-museale/museo-di-palazzo-poggi | TUESDAY CONTINUED 16:05 - 16:25 | Two Locations - Refer to Map: Near IMPS Registration (Ground Floor); Outside area between Buildings A & B (Ground Floor) Coffee Break | | | | | | |
|--|---------------------------------------|--|--|--|--|--|--|--|
| IMPS Welcome Reception 17:30 - 19:00 sma.unibo.it/it/il-sistema-museale/museo-di-palazzo-poggi | 16:25 - 17:05 | Dissertation Prize: Prof. James Balamuta Bayesian estimation of restricted latent class models: Extending priors, link functions and structural models | Dissertation Prize: Prof. Ummugul Berzihan Conditional dependence between response time and accuracy in cognitive diagnostic models | | | | | |
| All attendees and guests are welcome! | 17:30 - 19:00 | IMPS Welcome Reception sma.unibo.it/it/il-sistema-museale/museo-di-palazzo-poggi Via Zamboni, 33, 40126 Bologna BO, Italy | | | | | | |



Wednesday • July 13

Room B (First Floor)

Symposium: Beyond VAR: New developments in modeling psychological time series Chair: Dr. Oisín Ryan

Inference with cross-lagged effects -- Problems in time and new interpretations Dr. Charles Driver

Mapping modality in emotion time series Dr. Jonas Haslbeck

Machine learning for clustering ecological momentary assessment time-series data Ms. Mandani Ntekouli

Equilibrium causal models: Connecting dynamical systems and cross-sectional data Dr. Oisín Ryan

Room A (Ground Floor)

Symposium: Model based approaches to detecting item level non-compliant response behavior Chair: Mr. Patrick Schmidt

Non-compliant survey responding: An IRTree model for dynamically changing response strategies Mrs. Viola Merhof

A Bayesian latent class approach for the detection of automated survey responses Dr. Zachary Roman

Experimental evidence for a dynamic latent class model of non-compliance Mr. Patrick Schmidt

An explanatory mixture IRT model for careless and insufficient effort responding in self-report measures Ms. Esther Ulitzsch

Room C (First Floor)

Symposium: Tackling challenges in analyzing intensive longitudinal data Chair: Ms. Sophie Berkhout

Statistical techniques for analyzing dyadic interactions Ms. Sophie Berkhout

It's all about timing: Exploring the consequences of choosing different temporal resolutions for analyzing passive measures Mrs. Anna Langener

Feasibility of personalized network models: Statistical power and missing data Ms. Alessandra Mansueto

Prospectively detecting mean and variance changes through statistical process control Ms. Evelien Schat

Assessing Bayesian fit of an Item Response Theory model for psychological time series Mr. Sebastian Castro-Alvarez

Room D (First Floor)

Session: IRT I Chair: Dr. Marieke van Onna

Permutation-based generalizable profile analysis for explaining DIF using item features Dr. Jesper Tijmstra

Detection of differential item functioning using residuals from item trace lines Mr. Youngiin Han

Proposing an EIRT approach that includes linguistic characteristics of items Ms. Magdalen Beiting-Parrish

Agreement among DIF detection algorithms: A multiverse analysis Dr. Veronica Cole

The gradient test in a conditional likelihood framework Mr. Andreas Kurz

Room G (Ground Floor)

Session: Outlier Detection Chair: Prof. Jimmy de la Torre

Two-way outlier detection for item response data Dr. Gabriel Wallin

Forward search for IRT estimation and for atypical responses detection Mrs. Anna Comotti

A robust item fit assessment Dr. Ummugul Bezirhan

Person misfit and person reliability in rating scale measures: The role of response styles Ms. Tongtong Zou

Detecting aberrant behaviors of test-takers with hierarchical IRT-based response times models Dr. Burhanettin Ozdemir

Room E (Second Floor)

Session: Measurement Invariance Chair: Prof. Carolin Strobl

Bayesian Region of Measurement Equivalence (ROME) approach with alignment Dr. Mark Hok Chio Lai

Finding clusterwise measurement invariance with mixture multigroup factor analysis Dr. Kim De Roover

A new Bayesian method for investigating, quantifying, and visualizing measurement invariance Mr. Milian Jovic

A systematic review of measurement invariance research of the CES-D across gender: calculation and report of effect size Mr. Gengrui Zhang

The effect of acquiescence bias on measurement invariance testing Mr. Damiano D'Urso

Room F (Second Floor)

Session: Causal Inference II Chair: Dr. Milica Miocevic

Machine learning methods for propensity score estimation in hierarchical data Ms. Marie Salditt

Beyond the mean: A flexible framework for studying causal effects using linear models Dr. Christian Gische

Estimating latent baseline-by-treatment interactions in statistical mediation analysis Dr. Oscar Gonzalez

Causal inference in latent class analysis in the presence of differential item functioning Mr. Felix Clouth

Fully latent principal stratification: combining PS with model-based measurement models Mr. Sooyong Lee

10:30 - 10:50

10:50 - 11:35

09:15 - 10:30

Two Locations - Refer to Map: Near IMPS Registration (Ground Floor); Outside area between Buildings A & B (Ground Floor)

Coffee Break

Room B (First Floor)

Invited Speaker: Prof. Eva Ceulemans KCP-RS and statistical process control: Flexible tools to flag changes in time series Chair: Dr. Silvia Bianconcini

Room A (Ground Floor)

Invited Speaker: Prof. Denny Borsboom Network approaches to psychological constructs: A review, an evaluation, and an agenda Chair: Dr. Mijke Rhemtulla

| WEDNESDAY CONTINUED 11:40 - 12:10 | Room B (First Floor) Spotlight Talk: Prof. Patricia Martinkova Computational aspects of reliability estimation Chair: Dr. Stefano Noventa | | | | ionality using lat | und Floor) rof. Melanie Wall ent class analysis within health contexts . Steffi Pohl |
|---|---|---|--|---|---|---|
| 12:10 - 13:40 | | | | our Own lee Lunch | | |
| 13:40 - 14:40 | | Keynote: Prof. Developing an evidence-Bas | s (First Floor) Elizabeth Tipton se when treatment effects vary Irini Moustaki | , | | |
| 14:45 - 16:00 | Room B (First Floor) Symposium: Psychometrics for adaptive learning end Chair: Dr. Abe Hofman Steering player behavior in adaptive learning end Dr. Abe Hofman A decade of psychometric optimisation in Proved Dr. Joost Kruis Tracing students' systematic errors in large-scale multiplication practice Dr. Alexander Savi Menness meet your digital twin Dr. G.K.J. Maris Kession: Factor Analysis Chair: Dr. Shaobo Jin Machine-learning-based factor retention - facomparison Data Forest Prof. David Goretzko Maximum Kate of LASSO-penalization within CML-estimation for IRT-models Mr. Can Gürer Matched-pair binary item response analysis using Bayesian adaptive Lasso factor model Prof. Edward Ip | NVIRONMENTS ise Learn e online e online Data-driven of setting witho Dr. Marieke va Parameter Id equating transformatic Dr. Jorge Gor FDA meets II Prof. James R A framework equated scale Dr. Stella Kim Comparing p | Chair: Dr. Dav Chair: Dr. Dav Rectangular latent Markov me self-learning platforms Ms. Rosa Fabbricatore A modified method to balance Dr. Chia-Ling Hsu Evaluate the mastery of learn Dr. Anton Béguin E-ReMI: Extended maximal in Dr. Alberto Cassese Com G (Ground Floor) Session: Test Equating hair: Prof. Marie Wiberg chirect consensus standard Du IRT an Onna lentifiability of the linear on under the NEAT design nzález RT amsay t to quantify overall errors in e scores resmoothing methods for ker- with mixed-format tests | Ground Floor) Classification id Torres Irribarra odeling for advising students in e attribute coverage in CD-CAT ing objectives teraction two-mode clustering Room E (Second F Session: Bayesian Me Chair: Dr. Fedele Gr Priors in Bayesian estimation three-parameter model Prof. Seock-Ho Kim Model-based missing data haa composites with missing item Ms. Egamaria Alacam Bayesian prior specification a fitting propensity Dr. Sonja Winter Variable selection with missin Prof. Sierra Bainter Evaluating item parameter dr longitudinal item response th Dr. Allison Boykin | Consequence ics in continu Mr. Rohit Batr Dynamic cond data Dr. Philippe R Modelling ag Dr. Sophie Var Using time-var tion of future Ms. Simran Jo Cont thods reco under the adling for us and model | ditional network models for intensive repeated ast reement for intensive longitudinal binary data nbelle arying dynamic parameters to improve predic- e outcomes |

Coffee Break

Room B (First Floor)

Symposium: Advanced methods to explore individual differences Chair: Dr. Sara Garofalo and Prof. Livio Finos

Generalized Procrustes problem allows to estimate subject-specific functional connectivity in fMRI data Ms. Angela Andreella

Unbiased methods to study interindividual variability using multilayer brain networks Dr. Simone Di Plinio

Unsupervised and supervised learning algorithms for accurate classification of cognitive profiles Mr. Matteo Orsoni

Room A (Ground Floor)

Symposium: New strategies for dimensionality analysis using exploratory graph analysis Chair: Dr. Hudson Golino

Testing the structure of network communities using the total entropy fit permutation test Dr. Hudson Golino

A Bayesian approach for dimensionality assessment in network psychometrics Dr. Dingjing Shi

Optimizing Walktrap's community detection in networks using the total entropy fit index Ms. Laura Jamison

Room C (First Floor)

Session: Multilevel Modelling and Factor Analysis Chair: Dr. Matteo Farnè

Modeling cluster-level constructs with individual-level measures Dr. Suzanne Jak

Nonparametric IRT models for two-level test data Ms. Letty Koopman

Multilevel X-Learner: Extending meta-learners for causal inference with clustered data Prof. Jee-Seon Kim

16:20 - 17:20

Room D (First Floor)

Session: IRT and Computerized Tests Chair: Dr. Björn Andersson

A module selection between subtests for improving measurement precision in multidimensional multistage testing Dr. Chia-Wen Chen

Matthew effects and metric distortions due to measurement model misspecification Ms. Xiangyi Liao

Effect of matching/weighting equating samples during the pandemic Dr. Kyoungwon Bishop

The use of factor scores in linking depression scales Ms. Nika Zahedi

Room G (Ground Floor)

Session: Network Psychometrics Chair: Prof. Denny Borsboom

Theories and applications of centrality measures in psychometric network analysis Dr. Hsiu-Ting Yu

Bayesian analysis of a Markov random field for ordinal variables Dr. Maarten Marsman

Detecting redundant items for the purpose of network modeling Mr. Joshua Starr

Room E (Second Floor)

Session: Estimation of Latent Traits Chair: Prof. Claus H. Carstensen

Targeting toward inferential goals in Bayesian nonparametric Rasch models Prof. JoonHo Lee

Statistical scoring rules in person parameter inference: Some general pitfalls Dr. Pascal Jordan

Estimation and use of ability distributions Dr. Won-Chan Lee

Assessing students' abilities: A hybrid archetypal analysis and IRT approach Dr. Lucio Palazzo

Room F (Second Floor)

Session: Neural Networks Chair: Prof. Silvia Cagnone

Predicting IRT 3PL parameters via a neural network model Dr. Dmitry Belov

Deep learning generalized structured component analysis: A knowledge-based nonlinear multivariate predictive method Mr. Gyeongcheol Cho

Improving measurement models using deep neural networks Prof. Artur Pokropek

PowerGraph: Using neural networks and principal components to determine multivariate statistical power trade-offs Mr. Ajinkya Mulay

Belmeloro Building - Refer to Map: First & Second Floor

17:20 - 18:40

Poster Session Reception View the Poster List

Presenters will be standing by their posters in a casual and fun setting to include hors d'oeuvres and a cocktail reception.

Thursday • July 14

Room B (First Floor)

Symposium: Statistical methods for the analysis of complex data structures Chair: Prof. Angela Montanari

Predictor selection for high-dimensional regression via random projection ensembles Dr. Matteo Farnè

Bayesian inference for mixed models with log-transformed response Dr. Aldo Gardini

Detecting latent variable non-normality through the generalized Hausman test Ms. Lucia Guastadisegni

Fully symmetric graphical lasso for dependent data Dr. Saverio Ranciati

Room A (Ground Floor)

Session: IRT II Chair: Prof. Cees Glas

A mixture model for discriminating responses affected by response styles and content-driven preferences Prof. Sabrina Giordano

New flexible item response models for dichotomous response with applications Dr. Jorge Bazán

Methodological issues in the IRT modeling of recognition task data Prof. Daniel Bolt

A dynamical framework for the derivation of cumulative response models Dr. Yvonnick Noel

Correcting for extreme response style with IRT: Model choice matters Mr. Martijn Schoenmakers

Room C (First Floor)

Session: Longitudinal Data Chair: Prof. Eva Ceulemans

Difference score methods for time-varying covariates in latent transition analysis Dr. Paul Scott

How and why apply Mokken Scaling to Longitudinal Data? Prof. Claus H. Carstensen

Controlling for cohort effects using a latent change score model with moderators Mr. Pablo F. Cáncer

Momentary profile similarity measures for multivariate dyadic time series Ms. Chiara Carlier

09:15 - 10:30

Room D (First Floor)

Session: Computerized Based Testing Chair: Dr. Qiwei He

Optimizing multistage adaptive testing designs for international large-scale assessments Dr. Usama Ali

Adjusted residuals for evaluating conditional independence in IRT models for multistage adaptive testing Dr. Peter van Rijn

Using unrestricted latent class model to estimate the density of item-score vectors: Towards a flexible computerized adaptive test Mr. Anastasios Psychoqyiopoulos

Useful and proper distractors for multiple choice items in cognitive diagnosis Prof. Hans Friedrich Koehn

Room G (Ground Floor)

Session: Validity and Reliability Chair: Dr. Anna Brown

Toward a Quantifiable Definition of Validity Dr. Mijke Rhemtulla

Adjusting scores for systematic bias using additivity analysis Dr. Joseph Grochowalski

How to estimate ICCs for interrater reliability from incomplete designs Ms. Debby ten Hove

More on having and eating one's cake: Why modern measurement theory is a poor recipe for preparing predictive tests Dr. Niels Smits

Resolving the test fairness paradox by reconciling predictive and measurement invariance Dr. Safir Yousfi

Room E (Second Floor)

Session: Process Data Chair: Dr. Dylan Molenaar

Supervised multidimensional scaling for process data Ms. Ling Chen

Enhancing latent models of rapid-guessing with additional process data indicators Ms. Jana Welling

Employing process-data indices to account for response biases in questionnaire data Dr. Marek Muszyński

Bayesian joint modeling of response accuracy and real-time emotions Prof. Yurou Wang

Room F (Second Floor)

Statistical Learning Chair: Dr. Oscar Gonzalez

Introduce confusion matrix to model evaluation in quantitative psychology Mr. Yongtian Cheng

A simulation study comparing the use of supervised machine learning variable selection methods in the psychological sciences Ms. Catherine Bain

A critical view on interpretation techniques for machine learning methods Dr. Mirka Henninger

Utilizing machine learning for simulation-based design optimization Mr. Felix Zimmer

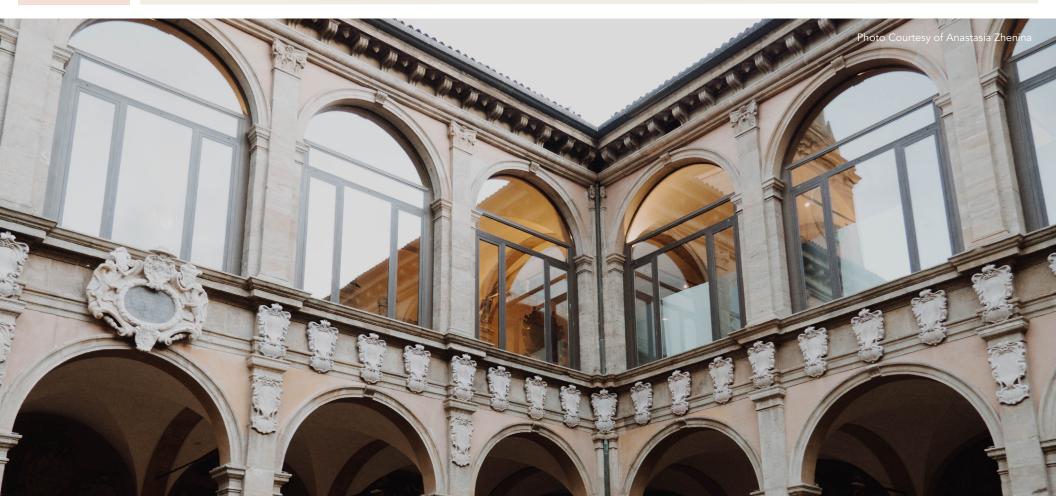
GeneticPower: A genetic algorithm-based framework for learning statistical power manifold Mr. Abhishek Kumar Umrawal

10:30 - 10:50

Two Locations - Refer to Map: Near IMPS Registration (Ground Floor); Outside area between Buildings A & B (Ground Floor)

Coffee Break

| | Room B (First Floor) Room A (Ground Floor) | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| THURSDAY CONTINUED 10:50 - 11:35 | Invited Speaker: Prof. Fan Yang Wallentin Structural equation modeling for Errors-in-variables systems Chair: Prof. Edward Ip | Invited Speaker: Prof. Paolo Giordani Factor analysis for multi-way data Chair: Dr. Qiwei He | | | | | | |
| | Room B (First Floor) | | | | | | | |
| 11:40 - 12:40 | Keynote: Prof. Joshua Loftus Fair algorithms, causality, and measurement Chair: Prof. Jee-Seon Kim | | | | | | | |
| | On Your Own | | | | | | | |
| 12:45 - 14:45 | Attendee Lunch | | | | | | | |
| | Belmeloro Building - Registration Area (Ground Floor) | | | | | | | |
| 14:45 - 17:30 | | | | | | | | |



Friday • July 15

Room B (First Floor)

Session: Applications I Chair: Prof. Sabrina Giordano

Analyzing clinical scales using full information optimal scoring $\mbox{Dr.}$ Juan Li

How about ... no? – Using missing responses and response times to model avoidance behavior Mr. Nico Remmert

Conditional standard errors of measurement for math modelling assessments Dr. Celil Ekici

Measuring digital competence internationally: Exploring test dimensionality, position effect and performance differences Dr. Yuan-Ling Liaw

The effects of the COVID-19 pandemic on the mental health of elderly people Prof. Francesco Scalone

Room A (Ground Floor)

Session: Latent Variable Models and Estimation Chair: Prof. Francis Tuerlinckx

Generalised additive latent variable models for location, shape, and scale Mr. Camilo Cardenas

A Dirichlet response model for the dual-range slider item format $\mathsf{Mr.}$ Matthias <code>Kloft</code>

Modeling measurement error in latent space modeling Dr. Tracy Sweet

Model implied instrumental variable approach in structural equation modeling with frequentist model averaging Dr. Shaobo Jin

Fast estimation of generalized linear latent variable models: Thinking out of the box Prof. Maria-Pia Victoria Feser

Room C (First Floor)

Session: Model Fit Chair: Dr. Ting Wang

Selecting interaction effects in additive models using I-priors Prof. Wicher Bergsma

Goodness of fit testing of SEM models in cross-validation samples Prof. Alberto Maydeu-Olivares

Cross-validation indices for factor model scoring Mr. Siyuan Marco Chen

Beyond Pearson's Correlation: General Association Tests for Psychological Research Dr. Julian Karch

Testing Correlations by Using Fisher's z Transformation and Bootstrapping Dr. Zhengiu Lu

09:15 - 10:30

Room D (First Floor)

Session: Growth Curve Models Chair: Prof. Vassilis Vasdekis

Performance of covariate-informed factor scores in bivariate latent growth models Dr. Alexis Georgeson

Using bootstrap to test changes in growth curve models with non-normal data Ms. Stefany Mena

Confidence interval of effect size measures in longitudinal growth models Ms. Zonggui Li

Room G (Ground Floor)

Session: IRT III Chair: Dr. Will Belzak

Effects of item specific factors on sequential/IRTree model applications Mr. Weicong Lyu

A historical perspective on polytomous unfolding models Ms. Ye Yuan

Analyzing spatial responses: A comparison of IRT-based approaches Prof. Amanda Luby

Random effects and extended generalized partial credit models Dr. David Hessen

Room E (Second Floor)

Session: Aberrant Test Behaviors Chair: Prof. Andries van der Ark

An algorithm to detect bots in a Likert-type questionnaire Mr. Michael John Ilagan

A statistical test for the detection of item compromise based on responses and response times Prof. Wim J. van der Linden

Using item scores and distractors to detect test speededness Ms. Kylie Gorney

Room F (Second Floor)

Session: Regressions Methods and Applications Chair: Prof. Melanie Wall

Using Information-Theoretic ideas to improve the interpretation of generalized linear and nonlinear exponential family models Prof. Jay Verkuilen

Monotonic proportional odds cumulative logit regression with ordinal predictors and an ordinal response Prof. Christian Hennig

A global assessment of the predictive capacity of selection tests in partially observed populations Dr. Eduardo Alarcón-Bustamante

Handling low quality responses in regression analyses: A simulation study Dr. Nivedita Bhaktha

Bidimensional latent regression Item Response Models for the assessment of financial knowledge in presence of don't know responses Prof. Silvia Bacci

10:30 - 10:50

Two Locations - Refer to Map: Near IMPS Registration (Ground Floor); Outside area between Buildings A & B (Ground Floor)

Coffee Break

Room B (First Floor)

Session: Datathon Session Chair: Dr. Abe Hofman

For more Datathon Session details, visit psychometricsociety.org/imps2022-datathon

Room A (Ground Floor)

Session: SEM Chair: Prof. Fan Yang Wallentin

Deriving expected SEM parameters when treating discrete data as continuous Dr. Terrence Jorgensen

Accounting for uncertainty to remedy two-stage structural fit indices Dr. Graham Rifenbark

Incorporating stability information into cross-sectional estimates Ms. Anna Wysocki

Sensitivity analysis of weighted composites in path analysis ssing partial least squares Dr. Ke-Hai Yuan

Room C (First Floor)

Session: Applications II Chair: Prof. Stefania Mignani

Formalised models of handwriting as a nonverbal instrument and their psychometric properties Dr. Yury Chernov

Continuation ratio model for polytomous Items with a censored like latent class Dr. Diego Carrasco

The case of the cracked paintings. What cracks in paintings can tell us about their origins Prof. Pieter M. Kroonenberg

Assessing remote proctors of high-stakes tests: Improving consistency in proctoring decisions Dr. Will Belzak

Getting the most out of Electroretinogram (ERG) Data: A methodological review and recommended statistical and machine-learning models Dr. Sunmee Kim

FRIDAY CONTINUED 10:50 - 12:05

12:10 - 12:55

Room D (First Floor)

Session: Classification Chair: Prof. Christian Hennig

Dependent latent class models Mr. Jesse Bowers

MISSION: a MIxture model for Subject by Situation InteractiON in binary data Dr. Jan Schepers

A new perspective on norming psychological tests Prof. Andries van der Ark

Mixture multigroup SEM for comparing structural relations among many groups Mr. Andres Felipe Perez Alonso

When almost all items are endorsed: Extreme responses or substantive classes? Dr. David Torres Irribarra

Room G (Ground Floor)

Session: Test Equating II Chair: Dr. Gabriel Wallin

Effect of direction of dif and group ability differences on multidimensional equating Dr. Secil Ugurlu

Sample size calculation and optimal design for regression-based test norming Dr. Francesco Innocenti

Evolutionary IRT scale maintenance via concurrent calibration designs Dr. Richard Luecht

Room B (First Floor)

Invited Speaker: Prof. Michela Battauz

Boosting methods for latent variable models

Chair: Prof. Marie Wiberg

Does it matter which test scores are used when equating test scores? Prof. Marie Wiberg

Room E (Second Floor)

Session: IRT IV Chair: Ummugul Berzihan

"Proportions-of-total" ipsative data: Ratio or ordinal? Dr. Anna Brown

Culture-specific faking: Adverse impact on forced-choice personality scores Dr. HyeSun Lee

Peabody quadruplets for forced-choice items Dr. Felipe Valentini

Measuring susceptibility with multidimensional zero-inflated and hurdle graded response models Dr. Brooke Magnus

Application of a new multilevel item response theory model with a latent interaction effect Dr. Tim Fabian Schaffland

Room F (Second Floor)

Session: Statistics and Psychometrics Chair: Prof. Maria-Pia Victoria Feser

Improving psychological explanations Dr. Noah van Dongen

Considerations in group differences in missing values Ms. Ambar Kleinbort

The Clique Percolation performance to detect cross-loadings across latent factors Dr. Pedro Henrique Ribeiro Santiago

Incorporating information from historical data for power analysis: A hybrid classical-Bayesian approach for multilevel studies Ms. Winnie Wing-Yee Tse

Exploratory factor analysis trees: Detecting measurement invariance between multiple covariates Mr. Philipp Sterner

Room A (Ground Floor)

Spotlight Talk: Dr. Jimmy de la Torre CDMs that optimize the diagnostic value of multiple-choice data: Real data applications Chair: Dr. Jorge Bazan

| | On Your Own |
|---------------|----------------|
| 12:55 - 14:10 | Attendee Lunch |

| FRIDAY CONTINUED 14:10 - 14:55 | Room B (First Floor) Early Career Award: Dr. Yunxiao Chen Detection of item preknowledge in educational testing: Latent variable models, sequential change detection and compound decision Chair: Prof. Daniel Bolt |
|--------------------------------------|---|
| 14:55 - 15:25 | Room B (First Floor) Meeting of Members Chairs: Prof. Carolyn Anderson & Prof. Irini Moustaki |
| 15:25 - 15:45 | Two Locations - Refer to Map: Near IMPS Registration (Ground Floor); Outside area between Buildings A & B (Ground Floor) Coffee Break |
| 15:45 - 16:45 | Room B (First Floor) Presidential Address: Prof. Irini Moustaki Estimation methods for simple and complex psychometric models Chair: Prof. Carolyn Anderson |
| 16:45 - 17:30 | Room B (First Floor) Awards and Closing Ceremony Chairs: Prof. Carolyn Anderson & Prof. Irini Moustaki |
| 18:30 - 22:30 | Palazzo Re Enzo IMPS Closing Banquet Reception palazzoreenzo.com Piazza del Nettuno, 1/C, 40125 Bologna BO, Italy |



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