

IMPS 2024

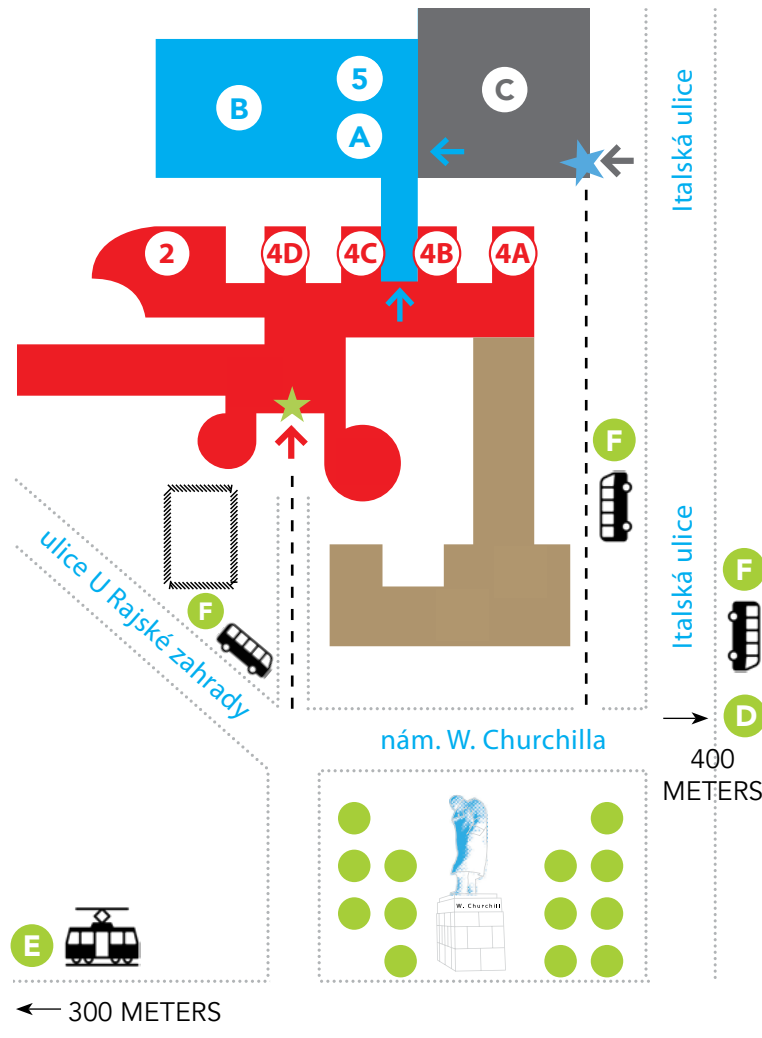


Prague, Czech Republic

July 16–19, 2024 • Short Courses July 15



Žižkov Campus Map



NB

NEW BUILDING

GROUND FLOOR: 2 Vencovského Auditorium 4 Lecture Halls A, B, C, D

RB

RAJSKA BUILDING

FIRST FLOOR: 5 RB 101 Auditorium and Lecture Halls RB A Registration B Atrium RB
SECOND FLOOR: • Classrooms RB - 209, 210, 211, 212

IB

ITALSKA BUILDING

FIRST AND SECOND FLOOR: • Canteens C Menza ★ Main Entrance

PT

PUBLIC TRANSPORT

- D The Direction Towards the Main Train Station
Subway Stop (Hlavní Nádraží/Line C)
- E Tram Stop (Viktoria Žižkov)
- F Bus Stop (Náměstí Winstona Churchilla)
- ★ Entrance/exit to the VŠE Building from outside

Prague Map



VŠE Building

Atrium of the RB Building
nám. Winstona Churchilla 1938/4, 130 00 Praha 3 - Žižkov

Monday, July 15:
8:00 a.m. - 5:00 p.m.

Tuesday, July 16:
8:00 a.m. - 4:30 p.m.

Wednesday, July 17:
8:00 a.m. - 5:00 p.m.

Thursday, July 18:
8:00 a.m. - 4:00 p.m.

Friday, July 19:
8:00 a.m. - 2:00 p.m.

Monday • July 15

RB 209

9:00 a.m. - 5:00 p.m.

Short Course #1:

Structural equation models for categorical outcomes using lavaan

Speakers: Dr. Terrence D. Jorgensen

9:00 a.m. - 10:30 a.m. • Short Course
10:30 a.m. - 10:50 a.m. • Refreshment Break
10:50 a.m. - 12:00 a.m. • Short Course
12:00 a.m. - 1:30 p.m. • Lunch Break
1:30 p.m. - 3:00 p.m. • Short Course
3:00 p.m. - 3:20 p.m. • Refreshment Break
3:20 p.m. - 5:00 p.m. • Short Course

RB 210

9:00 a.m. - 5:00 p.m.

Short Course #2:

Tools of machine learning in psychometrics

Speakers: Dr. Rudolf Debelak & Dr. David Goretzko

9:00 a.m. - 10:30 a.m. • Short Course
10:30 a.m. - 10:50 a.m. • Refreshment Break
10:50 a.m. - 12:00 a.m. • Short Course
12:00 a.m. - 1:30 p.m. • Lunch Break
1:30 p.m. - 3:00 p.m. • Short Course
3:00 p.m. - 3:20 p.m. • Refreshment Break
3:20 p.m. - 5:00 p.m. • Short Course

RB 211

Part 1: 9:30 a.m. - 12:30 p.m.

Part 2: 2:00 p.m. - 5:00 p.m.

Short Course #3:

Planning and conducting simulation studies in R
Speakers: Prof. Carolin Strobl & Dr. Mirka Henninger

9:30 a.m. - 11:00 a.m. • Short Course (Part 1)
11:00 a.m. - 11:20 a.m. • Refreshment Break
11:20 a.m. - 12:30 p.m. • Short Course (Part 1)
12:30 p.m. - 2:00 p.m. • Lunch (on your own)
2:00 p.m. - 3:30 p.m. • Short Course (Part 2)
3:30 p.m. - 3:50 p.m. • Refreshment Break
3:50 p.m. - 5:00 p.m. • Short Course

RB 212

9:30 a.m. - 12:30 p.m.

Short Course #4:

Computerized adaptive testing and multistage testing with R

Speakers: Dr. Duanli Yan & Dr. Alina A. von Davier

9:30 a.m. - 10:45 a.m. • Short Course
10:45 a.m. - 11:00 a.m. • Refreshment Break
11:00 a.m. - 12:30 p.m. • Short Course

9:00 a.m. -
9:15 a.m.

Vencovského aula

Welcome: Prof. David Kaplan, Dr. Patrícia Martinková,
Prof. Jakub Fischer, Dean of the Faculty of Informatics and Statistics, VŠE

9:15 a.m. -
10:15 a.m.

Vencovského aula

Keynote Address: Prof. Adrian E. Raftery
Statistical inference with model uncertainty
Chair: Prof. David Kaplan

10:15 a.m. -
10:45 a.m.

Atrium RB

Refreshment Break

10:45 a.m. -
12:00 p.m.

Vencovského aula

Invited Panel: Quality standards for simulation studies in psychometrics
Chair: Prof. Steffi Pohl

Short presentations by:

Richard Feinberg

Terrence Jorgensen

Anna Lohmann

Björn Siepe

Anders Skrondal

Carolin Strobl

RB 101

Session: Problems in mediation analysis
Chair: Prof. Ying Yuan

Bayesian latent class dynamic mediation model

Prof. Ying Yuan

Relative importance analysis in multiple mediator models

Dr. Xin Gu

Assessing heterogeneous treatment effects in Bayesian longitudinal mediation models

Ziwei Zhang

Causal mediation analysis for binary outcomes with asymmetric link functions

Yuji Tsubota

NB A

Symposium: Asymmetric item response models

Chair: Dr. Jay Verkuilen
Discussant: Dr. Carl Falk

Heywood cases in asymmetric IRT

Dr. Jay Verkuilen

Bayesian model averaging of (a)symmetric IRT models in small samples

Fabio Setti

Parsimonious item response theory modeling with different link functions

Dr. Wes Bonifay

Unipolar IRT and vocabulary development

Prof. Daniel Bolt

NB B

Session: Topics in latent variable estimation
Chair: Dr. Björn Andersson

Uncertainty quantification for latent variable selection in high dimensional exploratory factor analysis

Ms. Xinyi Liu

Pairwise stochastic approximation for confirmatory factor analysis of categorical data

Dr. Giuseppe Alfonzetti

Generalized linear latent variable models with nonignorable missing data

Dr. Björn Andersson

A two-stage path analysis approach to model interaction effects for congeneric measures

Mr. Gengrui Zhang

Ability estimation for culturally responsive assessments

Dr. Sandip Sinharay

NB C

Symposium: Integrating large language models and artificial intelligence in research: network psychometrics, emotion dynamics, and open-ended evaluations
Chair: Dr. Hudson Golino

Assessing the quality of AI-generated items: a network psychometric approach

Mrs. Lara Russell-Lasalandra

Decoding emotion dynamics using transformer-based AI models: a novel approach for facial expression recognition in videos using transforEmotion R package

Dr. Aleksandar Tomašević

Improving retrieval-augmented generation and zero-shot classification with exploratory graph analysis

Dr. Hudson Golino

Extracting useful information from open-ended responses using zero-shot classification: an example using student's evaluation of teaching

Dr. Mariana Teles

NB D

Session: Topics in reliability
Chair: Victoria Savalei

Maximal reliability coefficients for bifactor models

Victoria Savalei

On the estimation of reliability in knowledge space theory

Prof. Andrea Spoto

Reliability in intensive longitudinal studies: a state-space vs. linear mixed model approach

Mr. Tzu-Yao Lin

Estimating reliability for mixed-format tests

Ye Yuan

Standard errors and null-hypothesis significance tests for reliability coefficients

Andries van der Ark

RB 209

Symposium: Advancements in structural equation modeling (SEM): model fit, parameter selection, and measurement invariance
Chair: David Goretzko

Sensitivity of model fit indices in SEM to underfactoring

Dr. Melanie Viola Partsch

Projection predictive variable selection for Bayesian regularized structural equation modeling

Dr. Sara van Erp

Exploring measurement non-invariance with exploratory factor analysis trees and exploratory graph analysis trees

David Goretzko

Measurement invariance in within-person latent structure for dynamic factor models

Dr. Ai Ye

A causal framework for the comparability of latent variables

Philipp Sterner

RB 210

Session: Developments in IRT
Chair: Prof. Mark Wilson

A new measure and an old measure of person fit

Mr. Horacio Rocha

Detection of local dependence within PCMs through recent L1-penalization approaches

Mr. Can Gürer

Investigating the invariant ordering of clustered items using nonparametric IRT

Dr. Letty Koopman

Integrating observations and test scores: a fixed-random item model

Prof. Mark Wilson

RB 211

Symposium: New developments in dynamic modeling
Chair: Dr. Sy-Miin Chow

Analytic standard errors for latent Gaussian discrete-valued multivariate time series

Mr. Christopher Crawford

Extending fit indices from structural equation models to state space models

Mr. Hyungeun Oh

Reliability in multilevel continuous time modeling

Xiaoyue Xiong

Standard errors and confidence intervals for total, direct, and indirect effects in continuous-time models

Dr. Sy-Miin Chow

RB 212

Session: Topics in factor analysis
Prof. Amanda Fairchild

Hierarchical relation among minimum rank FA, PCA, and prevalent FA

Prof. Kohei Adachi

The partially oblique rotation for exploratory factor analysis

Prof. Marcos Jiménez

Overcoming Heywood cases in factor analysis: a maximum penalized likelihood approach

Mr. Philipp Sterzinger

Does choice of nonnormal data generation algorithm affect simulation results?

Prof. Amanda Fairchild

**TUESDAY
CONTINUED**
12:00 p.m. -
1:30 p.m.

VŠE Menza

Lunch (On Your Own)

1:30 p.m. -
2:15 p.m.

Vencovského aula

Invited Speaker: Dr. Cécile Proust-Lima
Continuous-time latent variable modeling of measurement scales in health studies: applications to the multiple-system atrophy progression
Chair: Prof. Silvia Bianconcini

RB 101

Invited Speaker: Dr. Esther Ulitzsch
Confirmatory mixture models for investigating contextual correlates of response behavior in ecological momentary assessments
Chair: Prof. Carolin Strobl

2:30 p.m. -
3:45 p.m.

RB 101

Session: Psychometric applications in psychology
Chair: Dr. Jenn-Yun Tein

Decoding intelligence: Investigating the structure of intelligence
Ms. Laura Maria Fetz

An investigation the context effect in the multidimensional forced-choice personality measurement
Dr. Kyosuke Bunji

Dynamic and bidirectional associations between physical-activity, smartphone addiction and state self-esteem
Yang Cui

Predicting onset of child positive and negative affect and behavior
Dr. Jenn-Yun Tein

Developing a framework for testing dyadic associations using pseudodyads and permutations
Chiara Carlier

NB A

Session: Topics in categorical data analysis
Chair: Prof. Silvia Bianconcini

Ordinal latent space item response models for Likert scale assessments
Ludovica De Carolis

Implications of alternative parameterizations in structural equation models for longitudinal categorical variables
Prof. Silvia Bianconcini

Similarity measures between two sets of binary vectors
Prof. Sophie Vanbelle

Fitting and testing log-linear item response models with known support
Dr. David Hessen

NB B

Symposium: Beyond ignorability: advancing with partial identifiability in psychometrics
Chair: Dr. Eduardo Alarcón-Bustamante

A partial identifiability approach for analyzing regression functions with missing data in the outcome
Dr. Jorge Gonzalez

On the impact of missing outcomes in predictive capacity of selection tests studies
Dr. Inés Varas

Assessing the marginal effect under partial observability in a selection context
Dr. Eduardo Alarcón-Bustamante

NB C

Symposium: Novel advances in psychometric network modeling
Chair: Mr. Xinkai Du

From exploratory to confirmatory network psychometrics: fit indices and cutoff values
Mr. Xinkai Du

Integration of Ising model and computer adaptive testing: a simulation
Mr. Tuo Liu

Testing for similarity between idiographic networks: the individual network invariance test (INIT)
Ms. Ria Hoekstra

Bayesian estimation and comparison of idiographic network models
Björn Siepe

Exploratory subgroup detection of psychological networks: assessing the impact of ordinal and skewed data
Tatiana Kvetnaya

Challenges in sample size calculation for psychological networks with missing data
Kat Jannik Nehler

NB D

Symposium: Statistical learning approaches to psychometric challenges
Chair: Dr. Dylan Molenaar

Autoencoders for amortized joint maximum likelihood estimation of item response theory models
Dr. Dylan Molenaar

One shape may not fit all: detecting differences in trajectories using GAM trees
Dr. Marjolein Fokkema

Affect modeling with wavelet-based time series and statistical learning methods
Dr. Sy-Miin Chow

Handling missing data in variational autoencoder based item response theory
Mr. Karel Veldkamp

RB 209

Session: Differential item functioning
Chair: Prof. Ronna Turner

Group-specific detection rates when using tree-based differential item functioning methods
Prof. Ronna Turner

A comparison of various DIF detection methods under sparse matrices
Ms. Haeju Lee

Using criterion validity to solve the scale indeterminacy in the context of DIF: an external variable approach
Dr. Jesper Tijmstra

Calculating bias in equating and handling DIF anchor items
Prof. Marie Wiberg

RB 210

Symposium: Heterogeneity in repeated measures
Chair: Prof. Timothy Brick

Improving Boruta feature selection in multivariate framework
Ms. Priyanka Paul

Are general truths generally true? Accommodating meaningful heterogeneity in dynamic processes
Dr. Zachary Fisher

Making extremely heterogeneous person-specific dynamics so happy together: state space mixtures all the way down
Prof. Michael Hunter

Unsupervised model construction in continuous-time
Jonathan Park

RB 211

Session: Topics in longitudinal data analysis
Chair: Dr. Yan Wang

Developing cross-classified growth mixture models to account for student mobility
Dr. Yan Wang

A new approach of integrating nonlinear growth modeling on accelerated longitudinal design
Ms. HeeJoo Park

Validation of the intra-individual speed-ability relationship (ISAR) model
Augustin Mutak

Joint modeling: dynamic latent variables, survival outcomes, and MNAR data
Ms. Yvette Baurne

RB 212

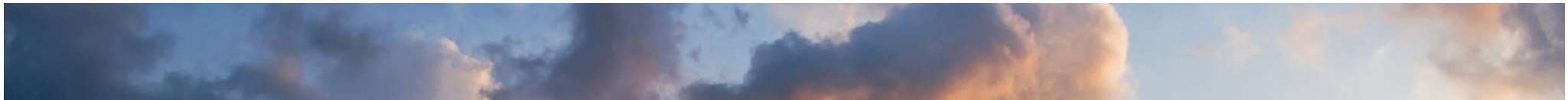
Symposium: Theory construction methods
Chair: Mr. Jason Nak

Text mining systematic reviews: new directions for qualitative research synthesis
Mr. Rasoul Norouzi

AI-assisted theory construction
Meike Waaijers

A theory construction framework for networks
Mx. Adam Finnemann

PsychoModels and PsychoFacts: a platform for formal theory development in psychological science
Mr. Jason Nak



Atrium RB

**TUESDAY
CONTINUED**
3:45 p.m. -
4:15 p.m.

Group Photo

All attendees welcome!

Atrium RB

Refreshment Break

Vencovského aula

4:15 p.m. -
5:15 p.m.

Dissertation Award Speaker: Prof. Gyeongcheol Cho

Constructs may or may not be latent: studies on two domains of structural equation modeling

Chair: Prof. Terry Ackerman

Carolinum (Charles University) | Address: Ovocný trh 560/5, 110 00, Praha 1 - Staré Město

Welcome Reception

Prof. Milena Králíčková, Rector of the Charles University; Prof. Antonín Jančařík, Dean of the Faculty of Education

6:30 p.m. -
9:00 p.m.

6:30 p.m. - 9:00 p.m. • Enjoy delightful array of hors d'oeuvres and cocktails in the ground floor.

7:30 p.m. • Welcome remarks in the courtyard.

6:45 p.m. - 7:10 p.m. and 8:15 p.m. - 8:40 p.m. • Come to listen to organ and trumpets in the Great Hall located on the first floor.



9:00 a.m.
- 10:15 a.m.

Vencovského aula	RB 101	NB A	NB B	NB C
<p>Invited Panel: Foundational competencies in educational measurement: an NCME task force consensus <i>Chair: Prof. Andrew Ho</i></p> <p>Andrew Ho (Chair/Presenter) Harvard University</p> <p>Ying (Alison) Chen (Presenter) University of Notre Dame</p> <p>David Thissen (Presenter) The University of North Carolina at Chapel Hill</p> <p>David Torres Irribarra (Presenter) Pontificia Universidad Católica de Chile</p> <p>Terry Ackerman (Discussant) University of Iowa</p>	<p>Symposium: Using process data to understand, assist, and enhance assessment <i>Chair: Dr. Mengxiao Zhu</i></p> <p>Linking writing process data to writing quality Hong Jiao</p> <p>Explaining performance gaps with problem-solving process data via LCMA Sunbeom Kwon</p> <p>Scoring of argumentative writing using keystroke logs and deep learning models Dr. Mengxiao Zhu</p> <p>Selecting and analyzing eye movement features for the screening of reading disorders in children Ms. Mingming Hu</p>	<p>Symposium: Latent variable models for complex data structures <i>Chair: Mariagiulia Matteucci</i></p> <p>Joint modelling of students' academic performance and dropout Prof. Michela Battauz</p> <p>Cheating detection based on response times in CAT Luca Bungaro</p> <p>A new factor mixture model to detect aberrant respondents Niccolò Cao</p> <p>Latent variable models for panel data: comparison of estimation methods Dr. Lucia Guastadisegni</p> <p>Scalable M-estimation for GLLVM Prof. Maria-Pia Victoria-Feser</p>	<p>Symposium: Modeling heterogeneity in response strategies <i>Chair: Dr. Rudolf Debelak</i></p> <p>Mixture IRTree models for exploring heterogeneity in response mechanisms Mr. Ömer Emre Can Alagöz</p> <p>Investigating heterogeneity in IRTree models for response styles using R Dr. Rudolf Debelak</p> <p>Quantifying DIF and DSF effect sizes in partial credit trees Dr. Mirka Henninger</p> <p>Mining groups with exceptional heterogeneity in structural equation models Christoph Kiefer</p>	<p>Symposium: Using causal inference theory for designing and analyzing replication studies <i>Chair: Prof. Steffi Pohl</i></p> <p>A causal replication framework for systematic replication efforts Peter M. Steiner</p> <p>Evaluating coaching supports in teacher education: A replication study approach Qing Liu</p> <p>A statistical framework for investigating causes of non-replicability Steffi Pohl</p> <p>Causes of non-replicability: Examining assumptions for causal inference Marie-Ann Sengewald</p> <p>Fractional factorial replication designs: Implementation and analysis Muwon Kwon</p>

NB D	RB 209	RB 210	RB 211
<p>Symposium: Advancements in conducting observational intensive longitudinal studies: Design, data, and analysis. <i>Chair: Dr. Sigert Ariens</i></p> <p>Preprocessing ESM data: a framework, tutorial website, R package, and reporting templates Jordan Revul</p> <p>Episode-contingent experience-sampling designs for accurate estimates of autoregressive dynamics Dr. Sigert Ariens</p> <p>Consequences of missing data types of the multilevel AR(1) model Mr. Benjamin Simsa</p> <p>Combining day-to-day dynamics with day-of-week effects and weekly dynamics using seasonal ARMA models Mr. Mohammadhossein Manuel Haqiqatkhah</p> <p>A practical guide to estimating the reliability of ambulatory assessment data Dr. Usbrand Leertouwer</p>	<p>Symposium: Quantitative methods for assessing the impact of physical environment on health <i>Chair: Dr. Sjoerd Ebisch</i></p> <p>Predicting mental health through satellite images Dr. Simone Di Plinio</p> <p>Assessing recovery after high-intensity anaerobic exercise: a comparison between physiological and psychological measures Dr. Luca Laezza</p> <p>Validation of the "restorativeness at work scale" (R@WS) Prof. Margherita Brondino</p>	<p>Session: Applications of IRT <i>Chair: Dr. Daniel Dostál</i></p> <p>Comparing EIRT models for mathematics and ELA across grades 3-8 Dr. Magdalen Beiting-Parrish</p> <p>Using item response theory to investigate whether rater assessments measure rater quality: is there such a thing as a "correct" rating? Dr. William Belzak</p> <p>Selection of eye tracking stimuli via item response theory Benjamin Graves</p> <p>Modernizing high school assessments in Albania: exploring item response theory in state matura exams Prof. Eralda Gjika</p> <p>Enhancing scoring procedures for the divergent association task: leveraging sequential scoring and IRT paradigm Dr. Daniel Dostál</p>	<p>Session: Bayesian issues in IRT <i>Chair: Prof. Seock-Ho Kim</i></p> <p>A Bayesian approach for joint modeling of rankings and ratings Prof. Elena Eroshva</p> <p>Bayesian nonparametric HETOP models for rating data Dr. Giuseppe Mignemi</p> <p>Some posterior standard deviations of the graded response model Prof. Seock-Ho Kim</p> <p>Estimation of IRT models using NUTS under non-normal distributions Dr. Rehab AlHakmani</p> <p>A Bayesian model to represent ambiguity and atypical behaviour in item response theory Mario Angelelli</p>

10:15 a.m.
- 10:30 a.m.

Atrium RB

Refreshment Break

10:30 a.m. -
11:30 a.m.

Vencovského aula

Career Lifetime Achievement Award: Prof. David Thissen
A selective intellectual history of differential item functioning analysis in item response theory and factorial invariance in factor analysis
Chair: Prof. David Kaplan

11:30 a.m. -
1:00 p.m.

VŠE Menza

Lunch (On Your Own)

WEDNESDAY
CONTINUED
1:00 p.m. -
2:15 p.m.

Vencovského aula

**Invited Panel:
Paths to the future: A panel discussion
of the future of SEM**
Chair: Prof. Steven Boker

Participants include:

Steven Boker, University of Virginia
Timothy Brick, Pennsylvania State University
Zachary Fisher, Pennsylvania State University
Michael Hunter, Pennsylvania State University
David Kaplan, University of Wisconsin - Madison
Alberto Maydeu-Olivares, University of South Carolina
Mike Neale, Virginia Commonwealth University
Yves Rosseel, University of Ghent
Timo von Oertzen, Thomas Bayes Institute, Berlin

NB A

Session: Topics in IRT 1
Chair: Dr. Gabriel Wallin

**Individual salience weights in the multidimensional
generalized graded unfolding model**
Prof. James Roberts

**Item response function variability: a strategy for
model comparison research**
Mr. Xing Chen

**Refinement of the matching item response model:
a shift to generative modeling**
Mr. Kentaro Fukushima

**An explanatory hyperbolic cosine model with
categorical covariates**
Dr. Jue Wang

A taxonomy of unfolding models
Prof. George Engelhard

NB B

**Symposium: Formal theories of
psychological phenomena**
Chair: Mr. Jesse Boot

**Improving treatments for mental disorders using
computational models**
Dr. Jonas Haslbeck

**From budworms to behaviors: bridging the gap
between individual psychology and social contexts
in addiction**
Mr. Jesse Boot

**Towards a general modeling framework of resource
competition in cognitive development**
Ms. Jill de Ron

**Integrating intraindividual and interindividual
phenomena in psychological theories**
Prof. Denny Borsboom

NB C

Session: Novel approaches to IRT
Chair: Prof. Francis Tuerlinckx

Geometry and psychometrics
Prof. Francis Tuerlinckx

**Regularized Gaussian variational estimation
for detecting intersectional differential item
functioning**
Mr. He Ren

**Bayesian diagnostic classification using doubly
bounded visual analogue scaling**
Ms. Hsin Kao

**Likelihood-free estimation of IRT models in small
samples: A neural networks approach**
Dr. Dmitry Belov

**A differential equation framework for the
derivation of item response functions**
Prof. Yvonnick Noel

NB D

**Symposium: Quantifying replication success:
correspondence measures for replication studies**
Chair: Dr. Vivian Wong

**Implementation of the correspondence test as an
S-curve**
Patrick Sheehan

How best to quantify replication success?
Prof. Don van Ravenzwaaij

**A systematic comparison of correspondence
measures for prospective replications**
Dennis Kondzic

**Assessing replication success over multiple
replication study results**
Dr. Vivian Wong

RB 209

Session: Topics in statistical/machine learning
Chair: Dr. Qiwei He

**Estimating latent variance in variational autoencoders
parameterization of Rasch models**
Mr. Denis Federiaki

**Unsupervised detection of random responding for
Likert-type inventories with varying numbers of
response categories**
Mr. Michael John Ilagan

**Predicting missing response with BERT model in
process data**
Dr. Qiwei He

**Deep-learning methods for multiple imputation in large-
scale survey assessments**
Dr. Usama Ali

**Exploring classic machine learning models and large
language models in detecting ChatGPT generated
essays in writing assessments**
Mr. Haowei Hua

RB 210

Session: Topics in clustering
Chair: Dr. Magdalen Beiting-Parrish

**Ordinal cognitive diagnosis in nonparametric
framework**
Prof. Youn Seon Lim

Sparse convex optimal discriminant clustering
Ms. Mayu Hiraishi

**Generalized Bayesian method for diagnostic
classification models**
Dr. Kazuhiro Yamaguchi

**Modeling examinee heterogeneity within
performance classification using generalized low
rank models**
Dr. Magdalen Beiting-Parrish

RB 211

Session: Statistical topics
Chair: Dr. Katrin Jansen

Multivariate location-scale models for meta-analysis
Dr. Katrin Jansen

**Bayesian modeling of data with ceiling or floor
effects**
Ms. Ruoxuan Li

**Marginal and conditional posterior predictive
p-values for ordinal models**
Ms. Ellen Fitzsimmons

**Use of external moment information via externally
informed models**
Mr. Martin Jann

**The application of a metaheuristic algorithm when
developing a test with a pre-defined value of the
cut-off score**
Lenka Firtova

Vencovského aula

Invited Speaker: Dr. Patrícia Martinková
Computational aspects of psychometric methods and beyond
Chair: Prof. Irini Moustaki

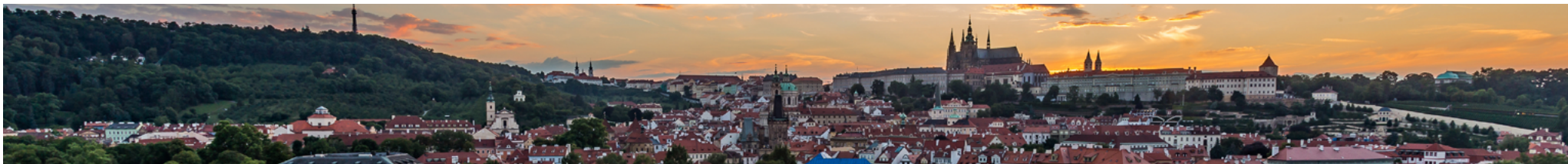
RB 101

Invited Speaker: Prof. Eiko Fried
Building bridges between psychometrics island and psychology mainland
Chair: Prof. Denny Borsboom

3:15 p.m. -
3:45 p.m.

Atrium RB

Refreshment Break



**WEDNESDAY
CONTINUED**
3:45 p.m. -
4:45 p.m.

Vencovského aula

Early Career Award: Prof. Maarten Marsman
From network psychometrics to Bayesian graphical modeling
Chair: Prof. Daniel Bolt

4:45 p.m. -
6:15 p.m.

Atrium RB

Poster Session

Presenters will be available at posters from 5:00 p.m. - 6:15 p.m. [Click here to view the poster list.](#)

7:00 p.m. -
10:00 p.m.

Pivnice Obecní dům (Pilsner Pub Municipal House) | Address: náměstí Republiky 1090/5, 111 21, Praha 1 – Staré Město

Graduate Student Dinner Mixer

This event is exclusively for graduate students and will be hosted by the Psychometric Society.



Vencovského aula

Symposium: Psychometric methods for analysis of wellbeing in the context of digital technologies
Chair: *Dr. Patricia Martinková*
Discussant: *Prof. Steriani Elavsky*

Dynamic systems modeling of human behaviors to improve proactive healthcare
Prof. Misha Pavel

The reliability of digital trace data in media exposure measures: a multiverse of measurements analysis
Dr. Oriol Bosch Jover

Joint modeling for non-ignorable missingness in intensive longitudinal data
Young Won Cho

Utilizing dynamic structural equation modeling on intensive longitudinal data: the inspiration for digital media use effects research
Mr. David Lacko

Quantification, testing, treatment and interpretation of non-Gaussian dependences in intensive longitudinal data: lessons learned from complex dynamical systems
Dr. Jaroslav Hlinka

RB 101

Session: Longitudinal latent class and CDM models
Chair: *Jonathan Templin*

Discovery of attribute hierarchies in longitudinal cognitive diagnostic models
Dr. Yinghan Chen

Regularized variational Bayes for Q-matrix inference in cognitive diagnosis models
Ms. Yi Jin

A wrinkle in the IRT theta continuum: exploring DCM classification
Jonathan Templin

Stepwise estimation approaches of complex latent class models: best practices
Dr. Zsuzsa Bakk

NB A

Symposium: Novel statistical approaches to tackle challenges in intensive longitudinal data
Chair: *Marieke Schreuder (Belgium) - KU Leuven*

Improving the estimation of sample heterogeneity in multivariate dynamic processes through feature selection
Ms. Di Jody Zhou

Investigating emotional recovery using survival analyses of burst ESM data
Marieke Schreuder

Person-specific updating approach to deriving EWMA control limits in case of few in-control observations
Dr. Evelien Schat

Training window selection methods for passive sensing
Fridtjof Petersen

NB B

Session: Theoretical and applied issues in validity
Chair: *Keith Markus*

Notes toward a grammar of validity arguments
Keith Markus

Integrating IRT and GT via a four-building-block approach
Mr. Mingfeng Xue

Mitigating social desirability using item quadruplets and MIMIC
Dr. Felipe Valentini

Assessing teaching skills: overcoming psychometric hurdles in observational measures
Mr. Steffen Erickson

NB C

Session: Bayesian stacking, trees, and predictive modeling
Chair: *Prof. Sierra Bainter*

On the improvement of predictive modeling using Bayesian stacking and posterior predictive checking-an example of modeling gender inequality in reading using PISA 2018
Dr. Mariana Nold

Incorporating sparsity into Bayesian stacking procedures
Ms. Kjorte Harra

Bayesian posterior predictive checks to analyze flexible distributional models
Ms. Paulina Grekov

Bayesian tree regression for estimating heterogeneous trajectories of test scores in large-scale educational data
Ms. Mingya Huang

Variable selection with missing data using Bayesian additive regression trees
Prof. Sierra Bainter

9:00 a.m. -
10:15 a.m.

NB D

Session: Topics in missing data analysis
Chair: *Dr. Joost Van Ginkel*

How many plausible values?
Dr. Paul Jewsbury

Planned missing data designs for addressing measurement reactivity
Mark Himmelstein

Moderated factor analysis with missing data: a multiple imputation approach
Dr. Joost Van Ginkel

Ising network analysis with missing data
Dr. Siliang Zhang

RB 209

Session: Topics in causal inference 1
Chair: *Prof. Jee-Seon Kim*

Validation of an SEM multiverse path test
Ronald Flores

Addressing clustered data structures in causal mediation analysis
Hanna Kim

An overarching framework for examining diverse forms of heterogeneous causal effects
Prof. Jee-Seon Kim

Evaluating RKHS mapping effects on functional structural equation models
Dr. Michio Yamamoto

Multilevel regression discontinuity analysis with measurement models
Youngjin Han

RB 210

Session: Machine learning and deep learning
Chair: *Dr. Benjamin Garzón*

A deep learning approach for a more efficient estimation of rank preserving models
Mr. Roberto Faleh

Modelling computer-based formative assessment data with graph neural networks
Dr. Benjamin Garzón

Residual permutation tests for feature importance in machine learning
Dr. Po-Hsien Huang

Parameterized material recommendation with dual-goal adaptive learning system
Dr. Tongxin Zhang

RB 211

Session: Bayesian factor analysis and SEM
Chair: *Prof. Christian Aßmann*

Bayesian dynamic mediation model
Mr. Chen Qijin

Bayesian SEM fit indices: now for categorical indicators
Dr. Mauricio Garnier-Villarreal

Bayesian fit measures in approximate measurement invariance in cross-cultural research
Dr. Chunhua Cao

Bayesian confirmatory factor analysis with missing values
Prof. Christian Aßmann

Bayesian joint modal estimation for sparse item factor analysis
Dr. Kensuke Okada

10:15 a.m.
- 10:45 a.m.

Atrium RB

Refreshment Break

10:45 a.m. -
11:45 a.m.

Vencovského aula

Keynote Speaker: Prof. David MacKinnon
The investigation of mediating processes as a measurement challenge
Chair: *Prof. David Kaplan*

Lunch (On Your Own)

Vencovského aula

Symposium: Item response theory and health outcomes: novel applications and methods

Chair: Dr. Leah Feuerstahler

Latent variable modeling for unipolar constructs in health sciences

Dr. Edward Ip

The application of IRT to traumatic brain injury research: some promise and challenges

Dr. Brooke Magnus

Mixture item response theory to quantify cumulative environmental exposure burden

Dr. Shelley Liu

An explanatory IRT model for toxicity-weighted environmental exposure burden scores

Dr. Leah Feuerstahler

RB 101

Session: Problems in cognitive diagnostic modeling
Chair: Dr. Pablo Nájera

A psychometric analysis on associations between coding concepts and item difficulty

Chen Li

Evaluating methods for assessing model fit in diagnostic classification models

Jake Thompson

A general diagnostic modeling framework for forced-choice items

Dr. Pablo Nájera

Correcting validity coefficients with aggregated data in cognitive diagnosis models

Dr. Rodrigo Schames Kreitchmann

A generalized Q-matrix estimation method for nonparametric cognitive diagnosis

Mrs. Jia Li

NB A

Session: Topics in factor analysis
Chair: Dr. Alexis Georgeson

Covariate-adjusted generalized factor analysis with application to testing fairness

Jing Ouyang

A factor analytic analogue for summed score EAPs

Dr. Alexis Georgeson

Comparing item selection in regularized factor analysis and network models

Ms. Jiaying Chen

Multilevel factor mixture modeling: a simulation study

Dr. Eunsook Kim

Pseudo-factor analysis of embedding similarity matrices

Nigel Guenole

NB B

Symposium: Recent advances in (non-)Bayesian informative hypothesis evaluation
Chair: Dr. Rebecca Kuiper

Applying the informative hypothesis approach to media effects

Ms. Nikol Kvardova

Theory-based hypothesis evaluation using information criteria

Dr. Rebecca Kuiper

Bayesian evaluation of N=1 studies

Prof. Herbert Hoijtink

Making nomological networks confirmatory using GORICA

Mr. Petr Palisek

Benchmarks and cut-off norms: necessary evils or questionable science inducers?

Lars de Vreugd

Emotions under control? The relationship between emotionality and cognitive control reverse if event-unpleasantness is increased within individuals

Mr. Levente Rónai

NB C

Session: Topics in intensive longitudinal data analysis
Chair: Conor Lacey

Extending the time-varying temporal network to allow changing contemporaneous connections

Simran Johal

Individual versus group-level analysis techniques for intensive longitudinal data: a primer

Conor Lacey

Investigation of detrending methods for intensive longitudinal dyadic data analysis

Yue Xiao

Estimating actor and partner effects from intensive longitudinal dyadic data with large amounts of missing values: estimation performance of the longitudinal actor-partner interdependence model and possible alternatives

Yuan Yuan Ji

NB D

Symposium: Using structural equation models to analyze round-robin data from social networks

Chair: Dr. Terrence Jorgensen

Multiple constructs multiple indicators social relations modes with and without roles

Dr. Fridtjof W. Nussbeck

A correlated traits correlated (methods - 1) multitrait-multimethod model for augmented round-robin data

Dr. David Jendryczko

Toward a general multivariate framework for social network data: An overview of estimation methods for structural social-relations models

Dr. Terrence Jorgensen

Incorporating level-specific covariates in structural equation models of social-network data

Ms. Aditi Manoj Bhangale

RB 209

Session: Differential item functioning
Chair: Dr. Heining Cham

Detecting non-uniform differential item functioning in latent variable interaction framework

Dr. Heining Cham

Extending the cluster approach to differential item functioning in polytomous items

Mr. Martijn Schoenmakers

Advancing polytomous DIF detection with the residual DIF framework

Dr. Hwanggyu Lim

Assessing differential step functioning for polytomous items with scale purification

Dr. Ya-Hui Su

RB 210

Symposium: Psychometric innovations for adaptive learning systems
Chair: Dr. Maria Bolsinova

A dynamic k value approach for the Elo rating system

Hanke Vermeiren

Curious interactions between learners and Elo rating systems

Dr. Abe Hofman

Tracking changing abilities in adaptive learning system using response times

Bence Gergely

Modeling individual differences in error-induced quitting

Ms. Annie Johansson

RB 211

Session: Graduate Student Research Competition
Chair: Prof. Silvia Cagnone

Presentations by the following teams:

Integrating Generative AIs into Computerized Adaptive Testing

Diego F. Graña, Diego Iglesias, Marcos Jiménez and Nuria Real-Brioso, Faculty of Psychology, Universidad Autónoma de Madrid

A Battle of Wits: Comparing the Capabilities of Generative AI and Humans in Scale Development

Meltem Ozcan, Winnie W.-Y. Tse, Gengrui Zhang, Department of Psychology, University of Southern California

Expanding the Scope of Data Sources in Psychometric Research by Embedding Individual Records using Generative AI

Shihao Wu, Chengyu Cui, Bo Meng, Jing Ouyang, and Zhiwei Xu, Department of Statistics, University of Michigan



THURSDAY
CONTINUED
2:45 p.m. -
4:00 p.m.

Vencovského aula

**Cito Special Symposium:
The future of educational measurement:
Integrating AI and psychometrics**
Chair: Dr. Joost Kruis

**Safeguarding the human element in
educational measurement: why we need
qualitative methods for validation in the
quantitative era of AI**
Mr. Max van Haastrecht

**Harmonizing ADHD scores by using
different methods (linear equating, Kernel
Equating, IRT, machine learning)**
Miljan Jovic

**Using natural language processing to score
[short] answers to open-ended items**
Dr. Joost Kruis

**Psychometrics as the origin of statistics as
the origin of data science**
Dr. Ivailo Partchev

RB 101

Session: Dimensionality and IRT
Chair: Dr. Chia-Wen Chen

**Beyond confirmatory: dimensionality
assessment in forced-choice data**
Mr. Diego Graña

Semi-parametric item factor analysis
Dr. Camilo Cardenas

**Score-Based Tests for Parameter
Instability in Ordinal Factor Analysis
Models**
Franz Classe

**A bifactor Thurstonian IRT Model
for multidimensional forced-choice
questionnaires with negative wording
effect**
Dr. Chia-Wen Chen

NB A

Session: Priors in Bayesian models
Chair: Dr. Josine Verhagen

**Inferring mastery of math skills over
time using power priors**
Dr. Josine Verhagen

**On the prior effective sample size of
normal and Dirichlet priors for threshold
parameters**
Dr. Noah Padgett

**Bayesian power priors in latent variable
models with small samples**
Dr. Lihan Chen

**Zero-and-one-inflated generalized
Dirichlet distribution to estimate the
order of resource allocation**
Mr. Taisei Wakai

NB B

Session: Topics in causal inference 2
Chair: Mr. Graham Buhman

**Prognostic score methods for the estimation of
average causal effects**
Mrs. Chamika Porage

**Monotonicity matters: evaluating heterogeneous
treatment effect estimation via nonparametric
regression tree methods**
Mr. Graham Buhman

**Disentangling person-dependent and item-
dependent causal effects: applications of item
response theory to the estimation of treatment
effect heterogeneity**
Mr. Joshua Gilbert

**Strengthening causal claims from educational
studies: a sensitivity analysis approach**
Ms. Elaine Chiu

**Estimating the causal impact of test changes
on test scores in continuous high-stakes
assessments**
Dr. Manqian Liao

NB C

**Session: Psychometric applications
to health**
Chair: Mr. Nico Remmert

**Assessing clinical avoidance behavior: a
testing framework using process data**
Mr. Nico Remmert

**Investigating measurement invariance of
the simplified beck depression inventory
using rating scale tree model**
Mr. Farshad Effatpanah

**The patient activation measure read
aloud in a clinical setting**
Ms. Magdalena Holter

NB D

Session: More on AI and machine learning
Chair: Prof. Elise Dusseldorp

Meta-regression trees: three innovations
Prof. Elise Dusseldorp

**Introducing multilevel lasso models into
value-added assessment for variable
selection**
Ms. Qing Zeng

**AI-based AIG for mathematics within a
learning engineering framework**
Prof. Ji Hoon Ryoo

**Automating psychometrics: AI - powered
item generation**
Dr. Karel Recka

**An introduction to anytime-valid inference
in psychology**
Mark Van Lokeren

RB 209

**Session: Psychometric applications to
cognition and learning**
Chair: Dr. Sunmee Kim

**Stop using d' and start using d_a :
evidence from empirical data on how
to measure sensitivity in recognition
memory**
Prof. Adva Levi

**Intersectional approaches to
understanding heterogeneity of
cognition aging: a data-driven
exploration**
Dr. Sunmee Kim

**Score development for the NIH infant
and toddler toolbox gaze**
Dr. Lihua Yao

RB 210

**Session: Response processes and test
taking behaviors**
Chair: Dr. Jing Lu

**Detecting test speededness based on Schwarz
information criterion**
Dr. Jing Lu

**Accounting for rapid guessing in competence
estimation in large-scale assessments**
Eva Zink

**Enhancing tree-based models for detecting test-
taking behaviors: integrating response time and
process variables**
Ms. Tamlyn Lahoud

**Bayesian factor mixture modeling with response
time for detecting careless respondents**
Ms. Lijin Zhang

**Modeling careless responding in experience
sampling data**
Milla Pihtijämäki

RB 211

**Session: Topics in large-scale
assessments**
Chair: Dr. Hua-Hua Chang

**Comparing large-scale assessments with
the total survey error approach**
Dr. Peter van Rijn

**New standards for validating AI-based
educational assessments**
Dr. Hua-Hua Chang

**The standard error of equated test
scores**
Prof. Wim J. van der Linden

**Examining the performance of hybrid
and traditional multistage tests under
different conditions**
Dr. Cagla Alpayar

RB 212

Session: Topics in IRT 2
Chair: Prof. Ruggero Bellio

**Importance: A new item parameter that cannot
be revealed by single stimulus data**
Dr. Saifir Yousofi

**Simulation-based uncertainty estimates for
and extension of effective difficulty and
discrimination measures for binary item response
models**
Mr. Peter Johnson

**Bias-reduced fixed effects estimation of two-
parameter logistic models**
Prof. Ruggero Bellio

**Should we trust model flexibility? Investigating
alternative polytomous IRT models**
Dr. Giovanni Bruno

Bit scales for item response theory models
Mr. Joakim Wallmark

4:00 p.m. -
4:15 p.m.

Atrium RB

Refreshment Break

4:00 p.m. -
6:45 p.m.

Atrium RB

IMPS 2024 Group Excursion City Walking Tour



Vencovského aula

ETS Special Symposium: Psychometric innovations in large-scale survey assessments
Chair: Dr. Duanli Yan

Variable selection techniques for imputation models
Dr. Peter van Rijn

Imputation models for special subpopulations
Dr. Usama Ali

Linking error in large-scale assessments
Dr. Paul Jewsbury

RB 101

Symposium: From traditional to modern methods for the analysis of multi-item measurements
Chair: Dr. Lubomír Štěpánek and Dr. Adéla Hladká
Discussant: Dr. Gabriel Wallin

Robust inference for traditional item discrimination index
Dr. Lubomír Štěpánek

Innovative iterative algorithms for estimation of item functioning
Dr. Adéla Hladká

Three and four-parameter IRT model in factor analysis framework
Ján Pavlech

Fine-tuning language models to predict item difficulty from wording
Jan Netik

On the identifiability and structural learning of R-RUM models
Iván Pérez

NB A

Session: Topics in IRT 3
Chair: Dr. Ben Domingue

Combining item responses and paired comparisons in small sample contexts
Dr. Nathan Zoanetti

Modeling process data with explanatory item response models
Dr. Susanne Frick

A mixture-IRT model for careless responding with flexible assumptions
Irina Uglanova

The item response warehouse (IRW)
Dr. Ben Domingue

Standardized person-fit statistics for tests with polytomous items
Prof. Kylie Gorney

NB B

Session: Topics in adaptive testing
Chair: Dr. Aron Fink

Adaptively regulated interim theta bounds for optimizing CAT item selection
Dr. Sung-Hyuck Lee

Non-parametric item response theory for computerized adaptive tests
Laura Aspirot

Computerized adaptive testing with continuous items: Improving the efficiency of noncognitive assessments
Mr. Wei-Hung Yang

Addressing calibration error in multidimensional adaptive testing: A Bayesian approach
Dr. Aron Fink

Evaluating models for item cloning variation under multistage testing
Dr. Won-Chan Lee

NB C

Session: Longitudinal designs and methods
Chair: Dr. Charles Driver

Continuous-time modeling of bivariate developmental trajectories in accelerated longitudinal designs
Ms. Nuria Real-Brioso

More on cross-lagged effects – (mis) specification in dynamic systems models
Dr. Charles Driver

SimDE app: simulating and visualizing formal theories using differential equations
Rohit Batra

Integral dimensionality reduction in models that include nonlinear random coefficients
Dr. Shelley Blozis

9:00 a.m. - 10:15 a.m.

NB D

Symposium: New insights in longitudinal data and mediation analysis
Chair: Prof. Zhiyong Zhang

Modeling dynamic components in intensive longitudinal data analysis: a comparison of one-step vs. two-step approaches
Dr. Peggy Wang

Quantile longitudinal data modeling with missing data
Dr. Xin Tong

Analysis of mediation direction change between manifest and latent variable modeling
Dr. Ke-Hai Yuan

Mediation analysis with text data
Prof. Zhiyong Zhang

A longitudinal study of the impact of living style on the health and mortality risk of the elderly
Prof. Yong Wen

RB 209

Session: Classification methods
Chair: Dr. Liqun Yin

Constructing language models to predict massive student sentiment toward universities
Tonghui Xu

Advancing enemy item detection using transformer-augmented NLP
Dr. Paulius Satkus

Improving context scale interpretation using latent class analysis for cut scores
Dr. Liqun Yin

Blueprinting the future: automatic item categorization using hierarchical zero-shot and few-shot classifiers
Dr. Ting Wang

RB 210

Session: Psychometric applications to education
Chair: Dr. Diego Carrasco

Multilevel synthesis of composite cross-classified event scores as a psychometric approach for EdTech
Dr. Dmitry Abbakumov

Latent logistic regression analysis of background characteristics on digital literacy
Dr. Qianru Liang

Accounting for ceiling effects on polytomous responses. An illustration with gender equality endorsement.
Dr. Diego Carrasco

Score-difference-at-risk (SDaR): using risk metrics to anticipate negative impact.
Dr. Sergio Arandeda

RB 211

Session: Topics in machine learning
Chair: Dr. Youmi Suk

An interpretable cognitive diagnostic model based on XGBoost and shap
Ms. Chang Nie

Understanding of measurement invariance within a SEMtree framework
Mr. YeongJin Jo

Using conditional tabular generative adversarial networks for process data generation in Monte Carlo simulation studies
Dr. Youmi Suk

Unveiling competencies for efficient AI utilization: a psychometric perspective
Ms. Bhavana Srirangam

10:15 a.m. - 10:30 a.m.

Atrium RB

Refreshment Break

10:30 a.m. - 11:15 a.m.

Vencovského aula

Invited Speaker: Dr. Maria Bolsinova
Rating systems for measurement in adaptive learning systems: challenges and solutions
Chair: Prof. Maarten Marsman

RB 101

Invited Speaker: Prof. Peter Halpin
Using robust scaling to address DIF and DTF in latent variable models
Chair: Prof. David Thissen

FRIDAY
CONTINUED
11:30 a.m. -
12:45 p.m.

RB 101

Symposium: User beware - emerging evidence that survey item calibration and scoring decisions can introduce substantial bias into growth mixture model results

Chair: Dr. Veronica Cole

Latent trajectory or measurement artifact? Understanding the effects of unmodeled response styles on growth mixture modeling results.
Dr. Veronica Cole

Why producing unbiased survey scores for use in growth mixture models is almost impossible: a few illustrations
Dr. James Soland

Investigating the sensitivity of growth mixture model results to conditioning scoring decisions on time-invariant covariates
Stephen Tavares

NB A

Session: Applications of longitudinal data analysis
Chair: Dr. Soojin Park

Comparing trajectories of school-to-work transitions using latent transition analysis
Dr. Tomasz Żóttak

Identifying subject heterogeneity in longitudinal brain connectivity patterns with clusterwise-IVA
Dr. Tom Wilderjans

Ability tracking for intelligent tutoring systems
Mr. Karl Sigfrid

Decomposing social disparities through various interventions: incorporating simulation-based sensitivity analysis
Dr. Soojin Park

NB B

Session: Topics in structural equation modeling
Chair: Dr. Graham Riftenbark

Recursive partitioning of continuous-time structural equation models
Dr. Pablo F. Cánchez

Evaluating multigroup structural equation modeling with exploratory measurement models
Ms. Jennifer Dang Guay

Small sample estimation of structural equation models: a comparison of alternative estimation approaches
Dr. Graham Riftenbark

NB C

Session: AI and machine learning in educational settings
Chair: Dr. Cheng Liu

Investigating text complexity indices in predicting SME-rated passage grade
Dr. Ann Hu

Unreliability and historical bias and their relationship to test fairness and equity
Dr. Cheng Liu

Exploring the frontier of fairness: The significance of outliers in algorithmic bias and equity
Dr. Secil Ugurlu

NB D

Symposium: Methodological advances in Bayesian graphical modeling
Chair: Ms. Sara Keetelaar

Testing conditional independence in psychometric networks
Nikola Sekulovski

How robust are psychometric networks?
Ms. Karoline Huth

Are psychological networks sparse or dense?
Ms. Sara Keetelaar

Dynamic conditional networks for intensive repeated data
Prof. Philippe Rast

RB 209

Session: Estimation methods
Chair: Dr. Yeh-Tai Chou

Applying Fisher's method of scoring to estimate ability parameters of the multi-unidimensional pairwise-preference model
Dr. Yeh-Tai Chou

Estimating hierarchical drift diffusion models: a comparison of methods
Ms. Yufei Wu

Dealing with small-sample biases in AR(1) models: methods for psychological research
Zhiwei Dou

Empirical bias-reducing adjustments for item response theory (IRT) models
Dr. Haziq Jamil

Estimating high-dimensional latent variable models via minibatch variance-reduced stochastic optimisation
Mr. Motonori Oka

RB 210

Session: Topics in IRT 4
Chair: Dr. Merve Sarac

Item compromise and preknowledge detection using response time and distractors
Dr. Merve Sarac

Exploratory higher-ordered diagnostic modeling framework for general response types
Ms. Jia Liu

Using the multidimensional nominal response model to model faking: the importance of item desirability characteristics
Mr. Timo Seitz

A multivariate logit-function for modeling continuous bounded interval responses
Mr. Matthias Kloft

Respondent-level change-point detection in educational and psychological testing
Dr. Gabriel Wallin

RB 211

Session: Psychometric applications to health outcomes
Chair: Dr. Carl Falk

Researching response-scale format effects in questionnaires: using the height inventory
Dr. Hynek Cigler

Bot detection: simulations and application in people-centered health measurement surveys
Dr. Carl Falk

Cognitive psychometric approach for modeling cognitive aging across ambulatory assessments
Sharon Kim

Do psychometrics matter? The effects of psychometrics on depression trial outcomes
Dr. David Byrne



FRIDAY
CONTINUED
12:45 p.m. -
2:00 p.m.

VŠE Menza

Lunch (On Your Own)

2:00 p.m. -
3:00 p.m.

Vencovského aula

Presidential Address: Prof. David Kaplan
Probabilistic forecasting with international large-scale assessments: methods for estimating the pace of progress to the United Nations education sustainable development targets
Chair: Prof. Denny Borsboom

3:00 p.m. -
3:30 p.m.

Vencovského aula

Members Meeting

3:30 p.m. -
4:30 p.m.

Vencovského aula

Awards and Closing Ceremony

6:00 p.m. -
10:00 p.m.

Prague Boats | Address: Dvořákovo nábř., 110 00 Praha 1 - Josefov, Prague

Closing Banquet Reception & Boat Cruise



- Thank you to the **Prague Convention Bureau** for the images used in this document. -



IMPS 2024

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