

CONFERENCE PROGRAM

ITC CONFERENCE

02 · 05 JULY 2024



G R A N A D A



INTERNATIONAL TEST COMMISSION



ITC CONFERENCE

02 · 05 JULY 2024

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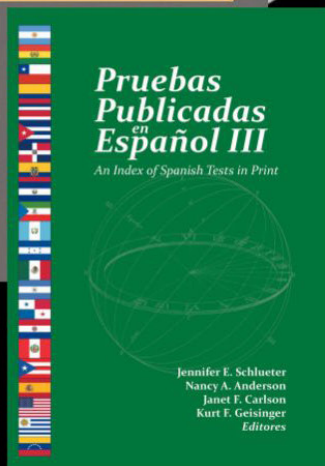
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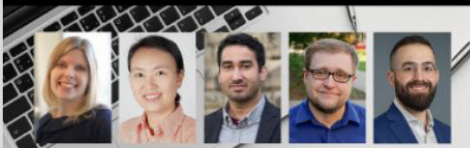
TEST REVIEWS • ASSESSMENT LITERACY
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THE TWENTY-FIRST
**Mental Measurements
Yearbook**
JANET F. CARLSON, KURT F. GEISINGER,
and JESSICA L. JOHNSON
EDITORS



WEBINAR PANEL



**AI-BASED ASSESSMENT:
PROMISES, PROGRESS, AND PITFALLS**

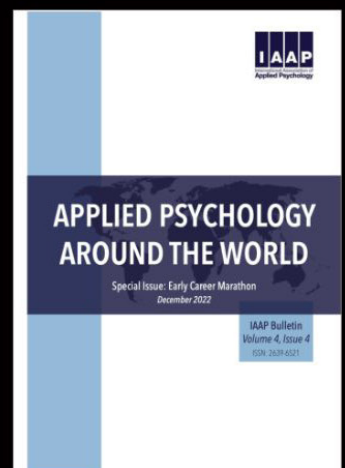
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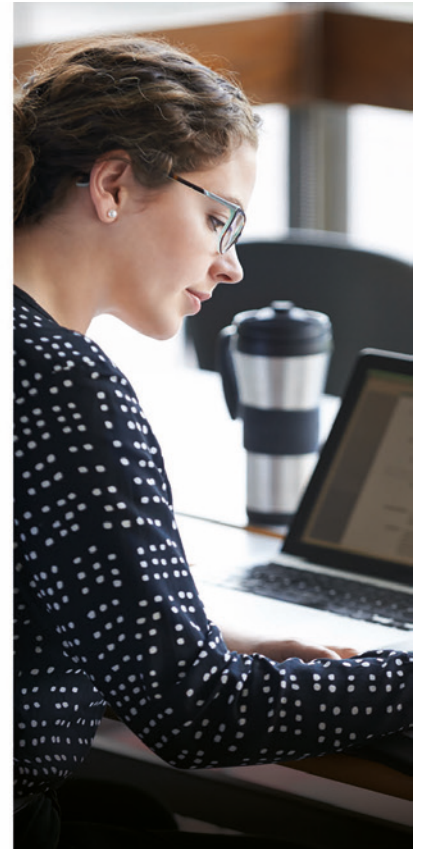
We have developed qualification standards for professionals using tests in the Occupational, Forensic and Educational domains which define safe and responsible practice.

Our Register of Qualified Test Users (RQTU) enables qualified professionals to be found.

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COMMITTEES

LOCAL ORGANIZING COMMITTEE (LOC):

PRESIDENCY

José-Luis Padilla

Full Professor at the Dept. of Methodology of Behavioral Sciences, University of Granada (Spain), and member of the Mind, Brain, and Behavior Research Centre (CIMCYC).

Luis-Manuel Lozano

Associate Professor at the Dept. of Methodology of Behavioral Sciences at the University of Granada (Spain), and member of the Mind, Brain, and Behavior Research Centre (CIMCYC).

MEMBERS

Andrés González

Associate Professor at the Dept. of Methodology of Behavioral Sciences at the University of Granada (Spain), and member of the Mind, Brain and Behavior Research Centre (CIMCYC).

Ignacio Martín

Full Professor and Director of the Dept. of Methodology of Behavioral Sciences at the University of Granada (Spain).

María-Carmen Aguilar-Luzón

Associate Professor and Director of the Dept. of Social Psychology at the University of Granada (Spain) and member of the Mind, Brain and Behavior Research Centre (CIMCYC). President of the Spanish Association of Environmental Psychology (PSICAMB).

Mariela Bustos Ortega

Postdoctoral Researcher at in the Dept. of Methodology for Behavioral Sciences at the University of Granada (Spain), and member of the Mind, Brain and Behavior Research Centre (CIMCYC).

María-Carmen Navarro-González

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Juan F. Luesia-Lahoz

Research Assistant in the area of the Methodology of Behavioral Sciences at the Loyola University Andalusia (Spain).

Isabel Benítez

Associate Professor at the Dept. of Methodology of Behavioral Sciences at the University of Granada (Spain), and member of the Mind, Brain and Behavior Research Centre (CIMCYC).

Celia Serrano-Montilla

Assistant Professor at the National University of Distance Education (UNED) (Spain)

Álvaro Postigo

Assistant Professor at the University of Oviedo (Spain).

Jorge Torres Marín

Assistant Professor at the Dept. of Developmental and Educational Psychology at the University of Granada (Spain).

David Sánchez Casasola

PhD Student at the Dept. of Methodology for Behavioral Sciences at the University of Granada (Spain).

Albert Sesé

Full Professor at the Department of Psychology of the Balearic Islands University (Spain), former president of the Stress and Anxiety Research Society (STAR), and the current President of the European Association of Methodology (EAM).

Ana Hernández

Associate professor at the University of Valencia (Spain), member of the executive committees of AEMCCO (Spanish Association of Methodology of Behavioral Sciences), EAM (European Association of Methodology), and of the Board of Assessment of the EFPA (European Federation of Psychological Associations). She is vice-president of the AEMCCO (Spanish Association of Methodology of Behavioral Sciences)

Nekane Balluerka

Full Professor of Methodology of Behavioral Sciences at the Faculty of Psychology of the University of the Basque Country (Spain). She is president of the Spanish Association of Methodology of Behavioral Sciences (AEMCCO), and member of the Executive Committee of the European Association of Methodology (EAM). She was Rector of the University of the Basque Country (2017-2021).



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SCIENTIFIC COMMITTEE:

Miguel Sorrel

Universidad Autónoma de Madrid (España).

Dorothee Behr

GESIS Leibniz Institute for the Social Sciences (Alemania).

Kadriye Ercikan

ETS- Educational Testing Service (EE.UU).

Amina Abubakar

Pwani University (Kenia).

Steve Dept

cApStAn (EE.UU y Bélgica).

María Dolores Hidalgo

Universidad de Murcia (España).

INTERNATIONAL ADVISORY:

José Muñiz

Universidad Nebrija (España).

Felipe Valentini

Universidade São Francisco (Brasil).

Alejandra Domínguez

Universidad Iberoamericana Ciudad de México (México).

Bruno Zumbo

University of British Columbia (Canadá).

Priyanka Sharma

Australian Council for Educational Research (India).

Ahmad Fasfous

Bethlehem University (Palestina).

Ruben Ledesma

IPSIBAT, Instituto de Psicología Básica, Aplicada y Tecnología, CONICET y Universidad Nacional de Mar del Plata (Argentina).

Madeline Xi Xiamoing

Hong Kong Examinations and Assessment Authority (Hong Kong).

MAIN THEMES AND THEMATIC LINES:

Thematic line 1: Challenges and solutions for translation.

Thematic line 2: Adapting evaluation instruments to minority languages and cultures.

Thematic line 3: Survey research, psychometrics, and psychological assessment: Shared challenges and solutions.

TOPICS:

Translation/adaptation of tests, psychological assessment instruments, and survey questionnaires.

Construct or concept equivalence.

Testing equivalence by psychometrics methods.

Identifying biases by qualitative or quantitative methods.

Validity theory in testing, psychological assessment and survey research.

Quantitative, qualitative, and mixed validation methods.

Validity and fairness in cross-cultural testing, psychological assessment and survey research.

Computational developments for social science research in cross-cultural testing.

Artificial Intelligence in testing, psychological assessment and survey research.

Innovations in test development.

International assessment.

Psychometric modeling.



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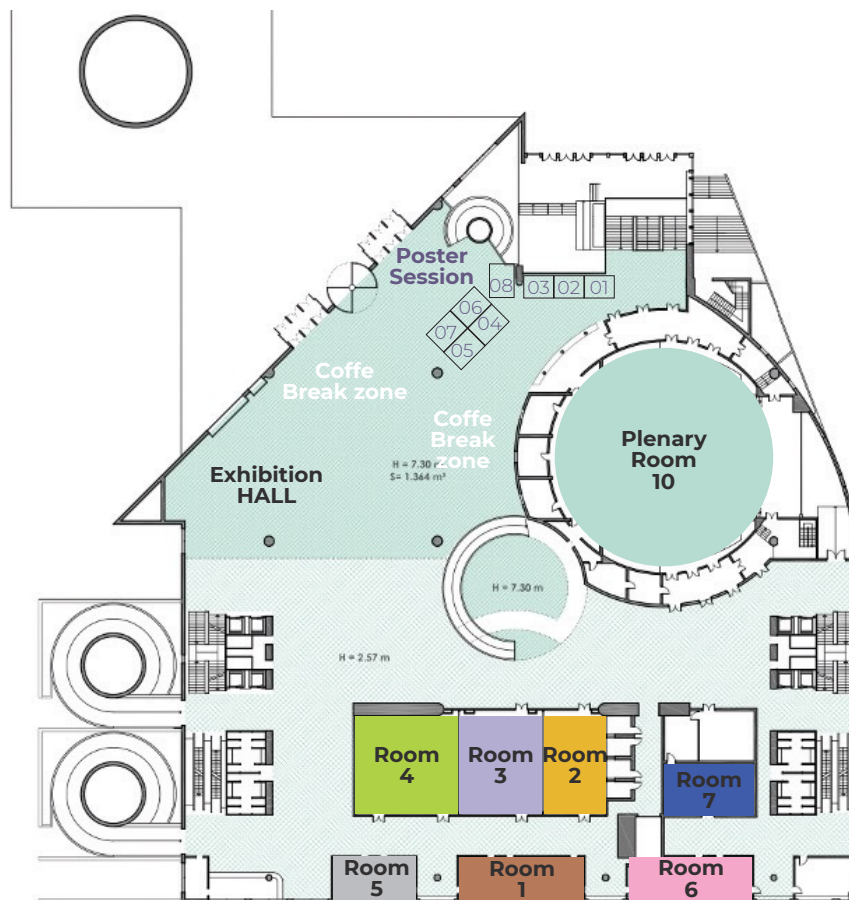
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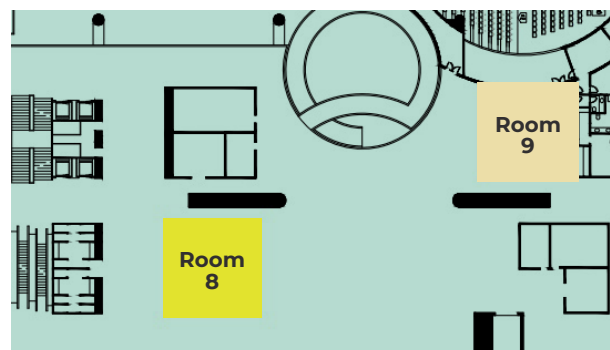
CONFERENCE VENUE

Conference venue at Palacio de Congresos, Granada, Spain.
Paseo del Violón, s/n. 18006 Granada

FIRST FLOOR



SECOND FLOOR





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PROGRAMME OVERVIEW

	TUESDAY		WEDNESDAY	THURSDAY	FRIDAY
9:00am-12:00pm	Short course (Morning session)	8:30am-9:45am	Session 1	Session 5	Session 9
12:30pm-3:30pm	Short course (Afternoon session)	9:55am-10:55am	Conference Opening and ITC Presidential Address.	Invited Panel	Keynote
4:00pm-7:00pm	Short course (Evening session)	10:55am-11:45am	Coffee break	Coffee break	Coffee break
7:30pm	Welcome reception	10:55am-11:45am	Poster session 1	Poster session 3	Poster session 5
		11:45am-1:00pm	Keynote	Session 6	Session 10
		1:00pm-2:00pm	Conference Lunch & Graduate Student Committee Meeting	Conference Lunch & Early Career Scholars Meeting	Thomas Oakland Award and Closing Ceremony
		2:00pm-3:15pm	Session 2	Session 7	
		3:25pm-4:40pm	Session 3	Session 8	ITC Council Meeting (2:30pm- 4:00pm)
		4:40pm-5:30pm	Coffee break	Coffee break	
		4:40pm-5:30pm	Poster session 2	Poster session 4	
		5:30pm-6:30pm	Session 4	ITC General Meeting	
		7:15pm-8:00pm	Alhambra Tour		
		8:00pm-8:30pm			
		8:30pm		Gala Dinner	



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TUESDAY JULY 2nd

9:00am - 12:00pm SHORT COURSES Morning session

- **ROOM 9**
An Introduction to the Theory of Standard Setting
Mark D. Reckase (*College of Education at Michigan State University*)
- **ROOM 3**
Response Bias in Self-Report Measurements
Ricardo Primi (*Graduate School of Psychology Assessment at the University of São Francisco in Campinas, Brazil*) & **Felipe Valentini** (*Graduate School of Psychology Assessment at the University of São Francisco in Campinas, Brazil*)
- **ROOM 2**
Best Practices for Artificial-Intelligence Scoring of Constructed Responses
Daniel F. McCaffrey (ETS)

12:30pm - 3:00pm SHORT COURSES Afternoon session

- **ROOM 3**
Questionnaire translation/adaptation: On ensuring equivalence in cross-cultural research
Dorothee Behr (*GESIS - Leibniz Institute for the Social Sciences, Mannheim, Germany*) & **Brita Dorer** (*GESIS – Leibniz Institute for the Social Sciences, Mannheim, Germany*)
- **ROOM 2**
Cognitive Diagnosis Modeling: Introduction, Recent Developments, and Implementation in R.
Jimmy de la Torre (*Faculty of Education at the University of Hong Kong*) & **Pablo Nájera** (*Department of Psychology, Universidad Pontificia Comillas*)
- **ROOM 9**
Sequence Mining Methods on Process Data in Large-Scale Assessments
Qiwei He (*Georgetown University*), **Esther Ulitzsch** (*Leibniz Institute for Science and Mathematics Education in Kiel, Germany*) & **Bernard Veldkamp** (*University of Twente, the Netherlands*)

4:00pm - 7:00pm SHORT COURSES Evening session

- **ROOM 3**
Introduction to AI-based Automated Item Generation and Scoring Practices
Alina Von Davier (*Chief of Assessment, Duolingo*) & **Duanli Yan** (*Educational Testing Service*)
- **ROOM 2**
Solving the problems of ipsative data: Designing and scoring forced-choice and other questionnaires in comparative format
Anna Brown (*University of Kent*)
- **ROOM 9**
A Critical Quantitative measurement perspective: MIMIC models to identify and remediate racial (and other) forms of bias
Matthew Diemer (*University of Michigan*)

7:30pm

WELCOME RECEPTION (Terrace of the Granada Conference Palace)

Stephen G. Sireci, *University of Massachusetts Amherst, USA*, ITC President
José Luis Padilla García, *University of Granada, Spain*, Co-President of the Local Organizing Committee ITC Conference 2024



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WEDNESDAY JULY 3rd

8.30am-9.45am **Session 1.1. TOPIC** Topics: Innovations in test development / Testing equivalence by psychometrics methods

Room 1

Chair: Emerik Kubiak (*AssessFirst*)

Evaluating and Evolving Cognitive Assessments in the Age of Large Language Models
Emerik Kubiak (*AssessFirst*)

A Cross-Cultural Test explained by a Scientific Dialectical Discourse
Claudia Gusso (*International Test Commission (ITC)*)

Measurement invariance/equivalence of the Index of Psychological Well-being at Work Across Black and White South African employees
Gina Görgens-Ekermans (*Stellenbosch University*)

Measuring Personality in a Changing World: Psychometric Analyses of the BFI-2 across Offline and Online Situations
Dora Leander Tinhof (*Bielefeld University*)

Children's Resilience Markers: Initial Studies for Age Range Expansion
Karina da Silva Oliveira (*Universidade São Francisco*)

8.30am-9.45am **Session 1.2. TOPIC** International Assessment

Room 2

Chair: Yan Zhang (*University of Auckland*)

An Examination of School-Based and Work-Based Assessment Practices at China's Tertiary TVET Institutes
Yan Zhang (*University of Auckland*)

Item Quality for Cognitive Assessments in Low-to-Middle Income Countries: Evidence from the Ethiopia Young Lives Data
Winifred Wilberforce (*Ohio State University*)

Towards Multi-Cultural Appropriate Assessments in South Africa: Challenges with the Test Classification Process
Justin August (*Health Professions Council of SA*)

Pēhea Tōku Haerenga? A Māori Self-Assessment Measure for Aging and End of Life
Melissa Carey (*University of Southern Queensland*)

8.30am-9.45am **Session 1.3. SYMPOSIUM** Examinee Engagement and Affect in Low-Stakes Testing Contexts: Influences and Personalized Interventions
Topic: Validity theory in testing, psychological assessment and survey research

Room 3

Chair: Sara Finney (*James Madison University*)

The Question-Behavior Effect in Low-Stakes Testing Contexts: How Many Questions are Needed to Prompt Good Test-Taking Effort?
Sara Finney (*James Madison University*)

Perceived Normativity Of Giving Effort On Low-Stakes Tests: Measures And Relations With Examinee Effort And Test Performance
Dena Pastor (*James Madison University*)



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A Personalized Intervention Study On Decreasing Not-Fully-Effortful Responses During Low-Stakes Mathematics Assessment

Burcu Arslan (*Educational Testing Service Global*)

Exploring the Affective Impact of Immediate Feedback in Low-Stakes Testing: The Role of Student Performance and Visual Feedback Design

Livia Kuklick (*IPN Kiel, Germany*)

8.30am-9.45am **Session 1.4. TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire

Room 4

Chair: Paul Shrell-Fox (*Efrata Academic College, PsychTech*)

Language Cultural Considerations and Outcomes in the Translation of WRAT5 to Hebrew
Paul Shrell-Fox (*Efrata Academic College, PsychTech*)

Watch out for that item: Considerations on the linguistic adaptation of the Comprehensive Aphasia Test into Malay

Giuditta Smith (*University of East Anglia*)

Psychological Assessment in Brazil: Perspectives and Challenges

Solange Muglia Wechsler (*Pontifical Catholic University of Campinas*)

Challenges of Psychological Assessment: The case of Chile

Marcela Rodríguez-Cancino (*Universidad de La Frontera*)

8.30am-9.45am **Session 1.5. TOPIC** Psychometric modeling

Room 5

Chair: E. Cihat Corbaci (*Sinop University*)

Latent growth analysis of serial eye-fixation indicators for multiple-choice test items
E. Cihat Corbaci (*Sinop University*)

Psychometric evaluation of the environmental knowledge scale in TIMSS 2019
Purya Baghaei (*IEA-Hamburg*)

A Latent Profile Analysis of Examinees' Multiple-Choice Item Processing Behavior Using Segment-Specific Eye-Fixation Metrics

Derya Akbas (*Aydin Adnan Menderes University*)

Willing and Able to Fake: A Flexible Item Response Modeling Framework for Applicant Faking Measurement (Psychometric modeling)

Siwei Peng (*Jiangxi Normal University*)

Dynamic Structural Equation Modeling of Daily Happiness and Stress Data

Esra Sözer Boz (*Bartın University/Turkey*)

8.30am-9.45am **Session 1.6. SYMPOSIUM** Changes in Collegiate Admissions Policies and Procedures. Topic: Validity theory in testing, psychological assessment and survey research

Room 6

Chair: Maria Elena Oliveri (*Buros Center for Testing*)

Discussant: Kadriye Ercikan (*Educational Testing Service*)

Changes in Admission Testing Practices in Colleges and Universities
Maria Elena Oliveri (*Buros Center for Testing*)

Global Perspectives on Higher Education Admissions: Navigating Access, Diversity, and Equity Challenges (International assessment)

Maria Elena Oliveri (*Buros Center for Testing*)

Test optional policies: trends and impact - to date (Validity and fairness in cross-cultural testing, psychological assessment and survey research)

Wayne Camara (*LSAC*)



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8.30am-9.45am **Session 1.8. TOPIC** Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Validity theory in testing, psychological assessment and survey research
Room 8
Chair: Hongwen Guo (*ETS*)

Integrating Process Data With Response Data for Cross-Cultural Comparability and Data Insights
Hongwen Guo (*ETS*)

Threats To Validity and Fairness of Testing: How Different Demographic and Cross-Cultural Groups Experience Testing Differently
Mollie Tatlow (*Thomas International*)

Institutional Diversity and its Implications for Assessments and Outcomes
Indrani Bhaduri (*NCERT*)

Mixed Item Type Strategies to Support Culturally Relevant Cross-Cultural Measurement
Fernanda Gandara (*Room to Read*)

9.00am-9.45am **Session 1.9. TOPIC** Validity and fairness in cross-cultural testing, psychological assessment and survey research
Room 9
Chair: Qilong Zhang (*United Arab Emirates University*)

Self-assessment scale of emotional labour for early childhood teachers: A context-centered approach
Qilong Zhang (*United Arab Emirates University/United Arab Emirates*)

Cognitive and Emotional Processing of Culturally Responsive Test Items
Chris Patterson (*University of Iowa*)

Fortifying the Human Firewall: Development and Validation of a Personality-Based Organizational Cybersecurity Risk Assessment Framework
Aishwarya Jaiswal (*Mercer | Mettl*)

9:55am-10:55am **Conference Opening and ITC Presidential Address**
Plenary Room 10

Welcome by Local Organizing Committee (LOC). José Luis Padilla, *University of Granada*.
Co-President of the Local Organizing Committee ITC Conference 2024

Welcome by the ITC President. Stephen G. Sireci, *University of Massachusetts Amherst*.

ITC Presidential Address. The Failure and Future of Psychometrics
Stephen G. Sireci, *University of Massachusetts Amherst, USA*, ITC President

10:55am-11:45am **Coffee break**



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10:55am-11:45am

Poster session 1

Room: Exhibition Hall

TOPIC Artificial Intelligence in testing, psychological assessment and survey research

1 Enhancing ADHD Screening in Children: Integrating Machine Learning with Item Response Theory.

Pedro Loures Alzamora, Derick Oliveira, Camila Nicola, Victoria Oliveira, Laura Ludgero, Ana Paula Couto Silva, Gisele Pappa, Marco Romano-Silva, Alexandre Serpa, Wagner Meira Jr, Débora Marques Miranda

2 AI for Psychometrics: Validating Machine Learning Models in Measuring Emotional Intelligence with Eye-Tracking Techniques.

Wei Wang, Liat Koffler, Chapman Lindgren, Max Lobel, Amanda Murphy, Qiwen Tong, Kemar Pickering

3 Exploring the Reliability of Audio Signals in Video Interviews for the Automatic Prediction of Psychological Characteristics.

Borja Artiñano, David Aguado, Pablo Garcia, Sara Estirado

4 Distilling vector space models for psychoeducational assessment: honing semantic indicators in automated summary evaluation.

José Ángel Martínez-Huertas, Guillermo Jorge Botana, Ricardo Olmos, José A León

5 An Examination of Racial Bias in Artificial Intelligence When Conducting Neurological and Learning Assessments.

Joseph Kush, Inna Vaisleib

TOPIC International assessment

6 Measurement invariance of a general cognitive performance measure across 26 European countries and Israel.

Adrián García Mollá, José Manuel Tomás, Amparo Oliver, Zaira Torres, Irene Fernández

7 Quantitative Literacy proficiency in Mathematics students: a cross-domain diagnostic exploration.

Tatiana Sango, Sanet Steyn

TOPIC Psychometric modeling

8 RaterLynx: A Shiny App for Incomplete Rating Designs of Rater-mediated Assessments.

Angel Arias

9 Comparative Analysis of Psychometric Models for Testlet-Structured Assessments.

Carlos David Díaz Lopez, Joaquín Caso Niebla, Coral González Barbera

TOPIC Innovations in test development

10 Research & Invention Methodology to generate a Cross-Cultural Test.

Claudia Gusso.

11 Stability Analysis of Estimation of Piecewise Linear ICCs.

Gen Hori, Sayaka Arai

12 Construction of a Situational Judgment Test for the selection of prison officer candidates: from job analysis to item production.

Gucek Richard, Loarer Even, Terriot Katia

13 Relationship between interests differentiation and social-emotional skills in Brazilian students: A new interest differentiation index.

Gustavo Henrique Martins, Filip De Fruyt, Ana Carla Crispim, Joyce Scheirlinckx

14 Advanced Care Planning in Mental Health: From Systematic Review to Instrument Development.

Chao Zhang, Maite Barrios, Ángela Berrío, Juana Gómez-Benito, Georgina Guilera



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15 Student Evaluation in a Diverse Educational Environment: India's Holistic Progress Card.

Paul Borysewicz, Aakanksha Bhatia, Neeraj Venkatamaran, Jonas Bertling, Indrani Bhaduri

16 Damage to Honor Scale: A Forensic Psychological Contribution to the Evaluation of Moral Damage.

Yessica Daniela González Berriel, Alejandra del Carmen Domínguez-Espinosa, Marina Flores-Camargo



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- 11:45am-1:00pm **KEYNOTE** Embracing the Future of Remote Proctoring: Ensuring Test Integrity and Accessibility in the Digital Age
Dr. Alina von Davier, Chiel of Assessment at Duolingo.
Plenary Room 10
- 1:00pm-2:00pm **Graduate Student Committee Meeting & Lunch**
Conference Hall
- 2:00pm-3:15pm **Session 2.1 TOPIC** Innovations in test development
Room 1
Chair: Ricardo Rosas (*P. Universidad Católica de Chile*)
- Interactions Between Big Five and Dark Side Traits Utilising Factor Analysis of Personality Assessment Data
Mikael Nederström (*Psycon/Finland*)
- Playful testing of executive functions with Yellow-Red: Tablet-based battery for children between 6 and 12 available in 8 different languages
Ricardo Rosas (*P. Universidad Católica de Chile*)
- Distractor Analysis of Eye Movements for Multiple-Choice Questions
Ergun Cihat Corbaci (*Dr. /Turkiye*)
- 2:00pm-3:15pm **Session 2.2 SYMPOSIUM** Revising and enhancing the EFPA Test Review Model with lessons learned in practice
Topic: International assessment
Room 2
Chair: Nigel Evans (*NEC*)
- Implementation of the Test Review Model in Spain: Impact, Improvements and Challenges
(Translation of tests, psychological assessment instruments and survey questionnaire)
Ana Hernández (*University of Valencia*)
- Cross-Cultural Testing – recent observations from the British Psychological Society Test Review Process (Validity and fairness in cross-cultural testing, psychological assessment and survey research)
Charlie Eyre (*Consultant Editor, British Psychological Society Test Reviews, member of BPS Committee for Test Standards. Director, Workspheres Ltd.*)
- Two applications of the EFPA Test Review Model in Norway (Translation of tests, psychological assessment instruments and survey questionnaire)
Siri S. Helland (*RBUP, Pilar, Norway*)
- The revision of the EFPA Board of Assessment Test Review Model: the last hurdles on the way to a necessary and thorough update (International assessment)
Schittekatte Mark (*Ghent University, Belgium*)
- 2:00pm-3:15pm **Session 2.4 SYMPOSIUM** Current Trends and Best Practices in Cross-Lingual Assessment
Topic: Translation of tests, psychological assessment instruments and survey questionnaire
Room 4
Chair: Louise Badham (*International Baccalaureate & University of Oxford / UK*)
Discussant: Guillermo Solano-Flores (*Standord University*)
- Maintaining Rigor and Comparability Across Different Language Versions of Language and Literature Assessments
Louise Badham (*International Baccalaureate & University of Oxford / UK*)
- Developing and Evaluating Exams for Use Across Multiple Languages: The Successive (Adaptation) Model
Maria Elena Oliveri (*Buros Center for Testing*)
- Developing, Facilitating, and Evaluating Validity and Comparability in Multi-Language Assessment Programs: A Review of the Literature
Stephen Sireci (*University of Massachusetts Amherst, USA*)
- Best Practices in Adapting Test Across Languages: Lessons from cApStAn's Twenty-Five Years of Trial and Error
Steve Y. F. Dept (*cApStAn*)



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2:00pm-3:15pm **Session 2.5 TOPIC Psychometric modeling**

Room 5

Chair: Miguel A. Sorrel (*Autonomous University of Madrid*)

Advances in testing MRI factorial models

Agustin Martinez-Molina (*Universidad Autónoma de Madrid*)

Monk: Developing a vertical scale based on IRT to assess Math competence in primary education in the Spanish education system

Miguel A. Sorrel (*Autonomous University of Madrid*)

Dimensionality Assessment in Forced Choice Questionnaires: First Steps Towards an Exploratory Framework

Diego F. Graña (*Universidad Autónoma de Madrid*)

2:00pm-3:15pm **Session 2.6 TOPIC Artificial Intelligence in testing, psychological assessment and survey research**

Room 6

Chair: Nancy Tippins (*The Nancy T. Tippins Group, LLC USA*)

Preserving the dignity and the privacy of candidates in AI-based assessments

Nancy Tippins (*The Nancy T. Tippins Group, LLC USA*)

From Job Descriptions to Facets: a Computational Technique for Effective Predictive Modeling

Tales Marra (*AssessFirst*)

Assessment Vulnerability to Cheating Using Large Language Models

Richard Landers (*University of Minnesota*)

2:00pm-3:15pm **Session 2.7 TOPIC Testing equivalence by psychometrics methods**

Room 7

Chair: Joshua Chiroma Gandhi (*Department of Psychology*)

Rethinking Psychometric Properties in Developing Instruments for Optimal Assessment

Joshua Chiroma Gandhi (*Department of Psychology*)

Investigating re-sitting effect on item difficulty in a medical selection test

Luc Le (*Australian Council for Educational Research*)

Fostering Fairness: Assessing measurement equivalence of MMIs

Mustafa Asil (*Bond University*)

Studying invariance with multiple groups in large datasets: A comparison of bayesian SEM and alignment method

Oscar Lecuona (*Universidad Complutense de Madrid*)

Updates on the Transcultural Adaptation and Validation of the Diagnostic Adaptive Behavior Scale (DABS) for Brazil

Denise Ruschel Bandeira (*Universidade Federal do Rio Grande do Sul*)

2:00pm-3:15pm **Session 2.8 TOPIC Quantitative, qualitative, and mixed validation methods**

Room 8

Chair: Anita M. Hubley (*University of British Columbia*)

A Conceptual Framework for Assessment Experience in Educational Testing

Fernando Mena Serrano (*University of Massachusetts Amherst*)

The effect of starting with easy items on SEM in a CAT

Serkan Arikan (*Bogazici University*)

Utilizing experts' judgments to determine cut-off scores of a test with little data

Julien Mouchnino (*Le français des affaires (CCI Paris Ile-de-France)*)

Recent Trends, Emerging Controversies, and Consequences for Response Processes Validation: Lessons Learned

Anita M. Hubley (*University of British Columbia*)

Examining undergraduate students' programming process through cognitive interviews and keystrokes

Min Li (*University of Washington*)



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2:00pm-3:15pm **Session 2.9 SYMPOSIUM** The assessment of cognitive abilities: critical approaches to validity and reliability
Topic: Validity theory in testing, psychological assessment and survey research
Room 9
Chair: Vanessa Torres van Grinsven (*Open Universiteit and University of Cologne*)

The Response Process in Standardized Cognitive Ability Tests and Validity
Vanessa Torres van Grinsven (*Open Universiteit and University of Cologne*)

The Test Tested
Anna M.T. Bosman (*Radboud University*)

Intelligence and the Individual
Anouk van Hoogdalem (*Radboud University*)

Dynamic assessment; An alternative to static testing?
Maartje Radstaake (*Radboud University*)

3:25pm-4:40pm **Session 3.1 SYMPOSIUM** Implementing a New Model for Measuring Clinical Judgment in Nursing: The Next Generation NCLEX
Topic: Innovations in test development
Room 1
Chair: Joe Betts (*NCSBN*)

The Best Seats in the House - A Viewpoint on the Development of the Next Generation Nursing Examinations (Validity theory in testing, psychological assessment and survey research)
April Zenisky (*University of Massachusetts Amherst*)

Developing and Testing Scoring and Response Models for Clinical Judgment Case Studies (Psychometric modeling)
Joe Betts (*NCSBN*)

Implementing a Polytomous CAT with Evolving Case Studies (Psychometric modeling)
Joe Betts (*NCSBN*)

Development of a Conceptual, Task, and Assessment Model for Measuring Clinical Judgment (Psychometric modeling)
William Muntean (*NCSBN*)

3:25pm-4:40pm **Session 3.2 SYMPOSIUM** Insights on changes in test use across Europe from the Work of the EFPA Board of Assessment
Topic: International assessment
Room 2
Chair: Nigel Evans (*NEC*)

How can we contribute to improving the quality of psychometric practices in the field of guidance and work: attempts, actions undertaken and reflection underway in France (Validity theory in testing, psychological assessment and survey research)
Even LOARER (*Cnam - Inetop, France*)

Online administration of tests of Italian psychologists: attitude and behaviours at the time of COVID-19 within an European Federation of Psychologists' Survey (Validity theory in testing, psychological assessment and survey research)
Adriana Lis (*Università di Padova*)

Challenges and Insights to Psychological Testing within Forensic Contexts in the UK (Validity and fairness in cross-cultural testing, psychological assessment and survey research)
Glenda Liell (*CTS, British Psychological Society*)

Revitalizing EFPA EuroTest Standards: Possible Strategies for Integrating Test User Standards into the EFPA Information Strategy (International assessment)
Urszula Brzezinska (*Pracownia Testow Psychologicznych PTP*)



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3:25pm-4:40pm **Session 3.3 SYMPOSIUM / PANEL** Organized Discussion: Rethinking Conceptions of Fairness and Equity in Assessment
Topic: Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Validity theory in testing, psychological assessment and survey research

Room 3

Chair: Randy Bennett (*ETS*)

Panelists: Randy Bennett (*ETS*)

Maria A. Ruiz-Primo (*Stanford University*)

Jennifer Randall (*University of Michigan*)

Ye Tong (*National Board of Medical Examiners*)

3:25pm-4:40pm **Session 3.4 SYMPOSIUM / ROUND TABLE** Adapting evaluation instruments to minority languages: Obstacles and alternatives
Topic: Translation of tests, psychological assessment instruments and survey questionnaire

Room 4

Chairs: Nekane Balluerka (*University of the Basque Country*). Jone Aliri (*University of the Basque Country*) y Arantxa Gorostiaga (*University of the Basque Country*)

Panelists: Nekane Balluerka (*University of the Basque Country*)

Jone Aliri (*University of the Basque Country*)

Arantxa Gorostiaga (*University of the Basque Country*)

Antonia Hogrefe (*Hogrefe TEA Ediciones*)

Pablo Santamaria (*Hogrefe TEA Ediciones*)

Maria E. Oliveri (*University of Nebraska, Lincoln*)

Mirko Antino (*The Spanish Journal of Psychology*)

3:25pm-4:40pm **Session 3.5 SYMPOSIUM** Computerized Adaptive Assessment of Cognitive and Non-Cognitive Competencies
Topic: Translation of tests, psychological assessment instruments and survey questionnaire

Room 5

Chair: Milagrosa Sánchez-Martín (*Universidad Loyola Andalucía*), María Dolores Nieto-Cañaveras (*Nebrija University*)

Discussant: José Muñiz (*Nebrija University*)

Development of a Forced-Choice Item Bank for Adaptive Personality Assessment: A Pilot Study
Francisco J. Abad (*Universidad Autónoma de Madrid/España*)

Multicultural Adaptive Assessment of Teamwork Competencies
María Dolores Nieto-Cañaveras (*Nebrija University/España*)

Development and calibration of a new item pool to measure logical reasoning ability in undergraduate students
Milagrosa Sánchez-Martín (*Universidad Loyola Andalucía*)

Spelling competence in incoming university students: Creation of item pool based on current uses of Spanish spelling
Juan F. Luesia (*Universidad Loyola Andalucía*)

3:25pm-4:40pm **Session 3.6 TOPIC** Artificial Intelligence in testing, psychological assessment and survey research

Room 6

Chair: Denis Federiakin (*Johannes Gutenberg University of Mainz*)

Development and Validation of Automated Video Interview Competency Assessments in Spanish
Gema Ruiz de Huydobro (*HireVue*)

Parameterizing Linear Logistic Test Model as a Neural Network
Denis Federiakin (*Johannes Gutenberg University of Mainz*)

Machine Learning Unveils Factors Influencing Students' Math Performance Globally: Insights from PISA 2018
Liu Liu (*University of Washington*)



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Differences in Perceptions of Artificial Intelligence (AI) - powered Assessments and Impact on Test Performance

Justine Chalifour (*HireVue*)

Predicting Missing Responses with Process Data in Large-Scale Computational Thinking Assessment

Qiwei He (*Georgetown University*)

3:25pm-4:40pm **Session 3.8 TOPIC** Quantitative, qualitative, and mixed validation methods

Room 8

Chair: Jon Twing (*University of Sydney*)

An Application of Differential Item Functioning to an Adolescent Assessment Adapted for Adult Learners

John Sabatini (*University of Memphis*)

Disentangling the Interplay of Emotional Intelligence, Personality Attributes, and MMIs in medical student selection

Mustafa Asil (*Bond University*)

An Application of G-Theory and Many Faceted Rasch Measurement in Performance Assessment

Jon Twing (*University of Sydney*)

Developing the Facilitators and Obstacles of Recovery Scale (FOR-S) using the Delphi method: Insights from mental health professionals and service users

Georgina Guilera (*University of Barcelona, Spain*)

3:25pm-4:40pm **Session 3.9 SYMPOSIUM** College Admission in Chile: Inequity, Social Unrest, and More Testing

Topic: Quantitative, qualitative, and mixed validation methods

Room 9

Chair: Sergio Araneda (*Caveon Test Security*)

Discussant: Monica Silva (*Pontificia Universidad Catolica de Chile*)

Standardized Testing and Social Equity: An Evaluation of Recent Changes in Chile's University Admissions (Identifying biases by qualitative or quantitative methods)

David Torres Irribarra (*Pontificia Universidad Católica de Chile*)

New Insights for Assessing the Predictive Capacity of Selection Tests in a Heterogeneous University System (Psychometric modeling)

Eduardo Alarcón-Bustamante (*Pontificia Universidad Católica de Chile*)

Studying Examinees' Experiences Shared on Tik Tok about Standardized Testing and College Admission in Chile (Quantitative, qualitative, and mixed validation methods)

Xaviera Gonzalez-Wegener (*Keele University*)

Change is never easy: the case of Chilean College admission system and their new battery of standardized tests PAES (Quantitative, qualitative, and mixed validation methods)

Fernanda Gandara (*Room to Read*)

4:40pm-5:30pm **Coffee break**



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4:40pm-5:30pm

Poster session 2

Room: Exhibition Hall

TOPIC Translation of tests, psychological assessment instruments and survey questionnaire

1 Validation of the Maternal Postpartum Stress Scale (MPSS) in Spanish population: analysis of the internal structure.

Adrian Ruiz-Perete, Sergio Martinez-Vazquez, Alejandro de la Torre-Luque, Rafael Caparros-Gonzalez

2 Evidence of content validity: Experts judgment in an Externalizing Problem Behavior Scale in Adults.
Lidia Torres Rosado, Cinta Mancheño Velasco, Andrea Blanc Molina, Manuel Sánchez García

TOPIC Quantitative, qualitative, and mixed validation methods

3 Are Open-Ended Demographic and Non-Demographic Items Useful in Evaluating Data Quality? Examining Responses from Adults Recruited via Amazon's MTurk.

Alexis D. Webster, Anita M. Hubley

4 Response Processes Validity Evidence Using Cognitive Interviews: Clear Reporting Necessary to Ensure Good Measurement Practice.

Sophie Ma Zhu, Amanda Rose Dumoulin, Anita M. Hubley

5 Identifying Imbalances and Gaps in Psychometric Evidence: A Reliability and Validation Synthesis of the Rosenberg Self-Esteem Scale.

Sophie Ma Zhu, Robert J. Ruddell, Anita M. Hubley

TOPIC Testing equivalence by psychometrics methods

6 Examining generational test score changes in Spatial and Word Analogy performance: Insights from Austrian conscript data.

Alina Bugelnig, Maria Gruber, Alexander Birner, Jakob Pietschnig

7 The English Version of the Satisfaction With Life Scale (SWLS) for Asian International Students in the United States: A Cross-Cultural Study.

Giusy Danila Valenti, Palmira Faraci

8 Factorial equivalence of the core cognitive abilities of the WAIS-IV across the US and UK.

Hannah Cruickshank Campbell, Christopher J. Wilson, Abigail Batty, Stephen C. Bowden

9 Comparing Item Parameters and Scales of Adolescent Assessment Adapted for Adult Learners.

John Sabatini

10 Modelling indicator-specific effects in longitudinal invariance: the case of the Revised-University of California at Los Angeles Loneliness scale.

Laura Galiana, Irene Fernández, Sara Martínez-Gregorio, Adrián García-Molla, José M. Tomás

11 Approximate invariance of ARDES measures in 7 countries using Alignment Analysis: Argentina, Australia, Brazil, China, Spain, UK, and USA.

Cándida Castro, Pablo Doncel, Rubén D. Ledesma, Silvana A. Montes, D. Daniela Barragan, Oscar Oviedo-Trespalacios, Alessandra Bianchi, Natalia Kauer, Weina Qu, Jose-Luis Padilla

12 A Psychometric Analysis of the CES-D 10 Using the South African National Income Dynamics Study (NIDS) Panel Data.

Richard Fletcher, Hermione Clayton, Natasha Bradley, Hayley Webb

TOPIC Psychometric modeling

13 An empirical comparison of IRT-based and Generalizability Theory-based approaches for estimating Conditional Standard Errors of Measurement in personality testing.

Gempp René

14 Moderated Nonlinear Factor Analysis for Measurement Invariance.

Joseph Kush



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15 Matching student's vocational interests to study environments: Model-based mapping of university faculties in Holland's circumplex RIASEC space.

Lisa Bailey, Gideon de Bruin, Brandon Morgan

16 Rasch analysis of the 21 item Depression, Anxiety and Stress Scale in a mild traumatic brain injury sample.

Richard Siegert, Josh Faulkner, Deborah Snell

17 Measuring How Individuals Mentally Relate Science to Religion.

Rizqy Amelia Zein, Mario Gollwitzer

18 Character Strengths and Well-being: Does IRT Model Choice Influence the Shape of the Relationship?

Susanna Goosen, Gideon de Bruin

TOPIC Artificial Intelligence in testing, psychological assessment and survey research

19 Gender differences in personality assessment with language indicators from semantic vector subspaces: An invariance study.

Álvaro López-Herranz, José Ángel Martínez-Huertas



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5:30pm-6:30pm **Session 4.1 SYMPOSIUM** Embedded Standard Setting and Item Alignment in Practice
Topic: Innovations in test development
Room 1
Chair: Ellen Forte (*edCount, LLC/USA*)
Discussant: Ye Tong (*National Board of Medical Examiners*)

Embedded Standard Setting: Theory and Practice
Daniel Lewis (*Creative Measurement Solutions LLC/USA*)
Principled Alignment in Support of Validity and Coherence
Ellen Forte (*edCount, LLC*)

5:30pm-6:30pm **Session 4.2 SYMPOSIUM** Raising the Bar: Unveiling the New Quality Standards for PISA
Topic: International assessment
Room 2
Chair: Javier Suárez-Álvarez (*University of Massachusetts Amherst*)
Discussant: Kadriye Ercikan (*Educational Testing Service*)

Purpose and Scope of the New PISA Quality Standards
Tiago Caliço (*OCDE*)
Using the new PISA Quality Standards to strengthen the development of PISA's innovative domain assessment
Mario Piacentini (*OECD*)
The Role of Fairness, Validity, Comparability, and Reliability in the New PISA Quality Standards
Javier Suárez-Álvarez (*University of Massachusetts Amherst*)

5:30pm-6:30pm **Session 4.4 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire
Room 4
Chair: Valeriia Manina (*HSE University*)

The Rasch/Guttman Scenario Approach to Developing the Scale of Ethical Behaviour in Organisations
Valeriia Manina (*HSE University*)
Can we predict Careless Responding? The role of sociodemographic variables
Clara Cuevas-Ureña (*University of Valencia*)
Succeeding in a matrix-reasoning task: effects of cognitive strategy and test characteristics
Natalie Badstuber (*Paris Lodron University of Salzburg*)

5:30pm-6:30pm **Session 4.5 TOPIC** Psychometric modeling
Room 5
Chair: Jorge González (*Pontificia Universidad Católica de Chile*)

More equitable and fairer measures of safe environment at schools in Chile
Jorge González (*Pontificia Universidad Católica de Chile*)
A comparison between Rasch Equating Method and Delta Scoring Equating Method using the Saudi National Assessment for Learning Outcomes
Ahmed Haddadi (*Education and Training Evaluation Commission*)
What can go wrong in a large-scale educational evaluation? Insights and recommendations from an educational assessment in Mexico
Scarlett Escudero (*Facultad de Psicología, Universidad Autónoma de Madrid/Spain*)

5:30pm-6:30pm **Session 4.6 SYMPOSIUM** Ethical issues in assessment arising from the use of AI
Topic: Artificial Intelligence in testing, psychological assessment and survey research
Room 6
Chair: Wayne Camara (*LSAC*)

Test taker data: Ownership and control of use of data from AI assessments
Wayne Camara (*LSAC/USA*)
Security, safety, and accountability in AI-based assessment
John Weiner (*Lifelong Learner USA*)
Fairness, transparency & explainability of AI-based assessment
Dragos Iliescu (*University of Bucharest Hungary*)



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- 5:30pm-6:30pm **Session 4.7 TOPIC** Computational developments for social science research in cross-cultural testing
Room 7
Chair: Matthias von Davier (*TIMSS and PIRLS International Study Center*)
- Advancing Education Assessment through NLP and AI: A Comprehensive Approach to TIMSS and PIRLS
Matthias von Davier (*TIMSS and PIRLS International Study Center*)
- Automatic math item generator - Auto.Math: Bridging the gap between tradition and AI?
Steve Bernard (*University of Luxembourg*)
- Multiple Imputation of missing values for randomized controlled trials: A step-by-step tutorial using mice
Oscar Lecuona (*Universidad Complutense de Madrid*)
- 5:30pm-6:30pm **Session 4.8 SYMPOSIUM** Testing the Periodic Table of Personality Methodology
Topic: Validity theory in testing, psychological assessment and survey research
Room 8
Chair: Rainer Kurz (*HUCAMA Analytics Ltd*)
Discussant: Richard Justenhoven (*Welliba*)
- Mapping Lumina Spark and Emotion Qualities to the TDA Periodic Table of Personality
Stewart Desson (*Lumina Learning*)
- Personality Factors on the PF16 Periodic Table of Personality
Rainer Kurz (*HUCAMA Analytics Ltd*)
- Normative and Ipsatised Great 8 Success Factors on the PF16 Periodic Table of Personality
Michele Guarini (*HUCAMA Group*)
- 5:30pm-6:30pm **Session 4.9 SYMPOSIUM** Alternative Approaches to Maximising Test Fairness
Topic: Validity and fairness in cross-cultural testing, psychological assessment and survey research
Room 9
Chair: Jake Smith (*Saville Assessment Ltd, UK*)
Discussant: Hennie Kriek (*TTS-Top Talent Solutions*)
- Stereotypes and Testing Fairness
Sarah Chan (*Saville Assessment Ltd, UK*)
- Fairer Assessment through Reducing Cognitive Load
Jake Smith (*Saville Assessment Ltd, UK*)
- Implementing Fairer Single-stage Online Screening
Rab MacIver (*Saville Assessment Ltd, UK*)
- 7:15pm-10:00pm **Alhambra tour**
Meeting point: Granada Conference Palace



THURSDAY JULY 4th

8.30am-9.45am **Session 5.1 SYMPOSIUM** Continuous Norming: Recent Advancements in Research and

Application – Part A

Topic: Innovations in test development

Room 1

Chair: Jan-Philipp Freudenstein (*Hogrefe Publishing Group*)

Where are we and Where to go? – A systematic Review and Real Data Example of Continuous Norming (Psychometric modeling)

Julian Urban (*Trier University*)

Comparing different Continuous Norming models in the creation of Rey Complex Figure Test (RCFT) norms (Psychometric modeling)

Yaiza Puig Navarro (*Hogrefe TEA Ediciones*)

The GRoNC-Checklist: Guidelines for Reporting on Norm-referenced and Criterion-referenced scores (Translation of tests, psychological assessment instruments and survey questionnaire)

Marieke Timmerman (*Psychometrics and Statistics, University of Groningen, the Netherlands*)

Zero-Inflated Beta-Binomial Distributions for Regression-Based Norming of Test Data with Floor and Ceiling Effects (Innovations in test development)

Jan-Philipp Freudenstein (*Hogrefe Publishing Group*)

8.30am-9.45am **Session 5.2 TOPIC** International assessment

Room 2

Chair: Marcus Henning (*University of Auckland*)

Understanding higher education students' ethical learning practices

Marcus Henning (*University of Auckland*)

Adopting ITC Guidelines for cross-cultural assessment: Translation and validation of an ADHD measure

Braden Hansma (*MHS*)

The Instructional Sensitivity of Constructed-Response Items in International Large-Scale Assessments

Anne Traynor (*Purdue University/United States*)

Do students respond inconsistently on mixed-worded scales in the PISA 2022 questionnaire?

Michalis Michaelides (*University of Cyprus*)

Integrating Intelligent Tutoring Systems with Active Learning to Enhance Testing Systems

Yoon Soo Park (*University of Illinois College of Medicine*)

8.30am-9.45am **Session 5.3 SYMPOSIUM** Comparability challenges in national and international summative assessment

Topic: Validity and fairness in cross-cultural testing, psychological assessment and survey research

Room 3

Chair: Alejandro Veas (*University of Murcia/Spain*)

Discussant: Alejandro Veas (*University of Murcia*)

Application of the Rasch model to the Spanish university entrance examinations

Elena Govorova (*2E Estudios & Evaluaciones*)

Evaluating the cross-language comparability of PIRLS in South Africa

Heather Kayton (*University of Oxford*)

University entrance examinations and PISA: Analysis of curriculum and competences from the Spanish context (International assessment)

Jennifer Pérez-Sánchez (*University of Salamanca*)

Inter-subject comparability: small entry subjects and minority languages in the International Baccalaureate Diploma Programme (International assessment)

Louise Badham (*International Baccalaureate / University of Oxford*)



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8.30am-9.45am **Session 5.4 SYMPOSIUM** Test translation and adaptation – survey methodology meets testing
Topic: Translation of tests, psychological assessment instruments and survey questionnaire
Room 4
Chair: Dorothée Behr (*GESIS - Leibniz Institute for the Social Sciences*)

Best practice in translation of survey instruments: 25 years of practice and research
Alisú Schoua-Glusberg (*Research Support Services Inc.*)

Advance translation - a method to enhance source questionnaire's translatability and cross-cultural portability
Brita Dorer (*GESIS-Leibniz Institute for the Social Sciences*)

Going beyond translation procedures – supporting comparability using (item-specific) translation guidance
Dorothée Behr (*GESIS - Leibniz Institute for the Social Sciences*)

Questionnaire translation in cross-cultural research: Translators, their background, and relevant competencies from the perspective of international research teams
Ulrike Efu Nkong (*GESIS Leibniz Institute for the Social Sciences*)

8.30am-9.45am **Session 5.5 SYMPOSIUM** Assessment in Organizational contexts
Topic: Validity theory in testing, psychological assessment and survey research
Room 5
Chair: María Dolores Nieto Cañaveras (*Nebrija University*)
Discussant: Ana Hernández-Baeza (*University of Valencia*)

Work Engagement revisited: A three item express scale
María Dolores Nieto-Cañaveras (*Nebrija University*)

Dimensionality of Organizational Climate
María Dolores Nieto-Cañaveras (*Nebrija University*)

Wellbeing at work can be measured
José Muñiz (*Nebrija University*)

Entrepreneurial Personality Assessment: The BEPE Battery
Álvaro Postigo (*University of Oviedo*)

8.30am-9.45am **Session 5.6 TOPIC** Artificial Intelligence in testing, psychological assessment and survey research
Room 6
Chair: Emeric Kubiak (*AssessFirst*)

Comparing Content Validity in Personality Assessment: Machine vs. Human-Authored Items using LLMs.
Simon Baron (*AssessFirst*)

Using ChatGPT for Semi-Automatic Generation of Items for Summative Assessment: a Case Study
Sergio Araneda (*Caveon Test Security*)

Unlocking Cognitive Patterns: A Comparative Exploration of Linear and Deep Dimensionality Reduction Approaches in clusterizing Student Cognitive Profiles
Matteo Orsoni (*University of Bologna*)

On the Use of Large Language Models to Generate Novel Collaborative Problem Solving Items
Yoav Bergner (*New York University*)

Using Natural Language Models to Assess Cognitive Complexity of Academic Standards
Kevin O'Rourke (*University of Massachusetts, Amherst*)



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8.30am-9.45am Session 5.7 TOPIC Construct or concept equivalence

Room 7

Chair: Van Nguyen (*Australian Council for Educational Research*)

Evaluation of item time effect on a computer- based selection test

Van Nguyen (*Australian Council for Educational Research*)

Cross-cultural variability in lay perceptions of mental illness in Germany: Measurement invariance over cultural groups, gender, age, and education

Marie Kollek (*University of Hildesheim, Germany*)

Is It Worth to Use Constructed-Response Items in a Large-Scale Assessment Measuring Higher-Order Thinking?

Ozge Ersan (*Republic of Türkiye Ministry of National Education*)

How Cultural Cues Affect Bicultural Individuals' Personality Assessment Response Patterns: A Frame Switching Perspective

Patrick Lee (*Baruch College & The Graduate Center, CUNY*)

Using Q-matrices from CDM to inform the development of parallel test forms for the administration of diagnostic assessments in multiple languages

Sanet Steyn (*University of Cape Town*)

8.30am-9.45am Session 5.8 SYMPOSIUM Seeing Beyond Scores: Eye Tracking as a Gateway to

Understanding Cognitive Processes and Attentional Dynamics of Test Takers

Topics: Quantitative, qualitative, and mixed validation methods /Translation of tests, psychological assessment instruments and survey questionnaire

Room 8

Chair: Marlit Annalena Lindner (*IWM, University of Tübingen*)

Discussant: Esther Ulitzsch (*CEMO, Centre for Educational Measurement, Oslo*)

Investigating Response Models in Large-Scale Assessments: Refiguring Scale, Granularity and Diversity with Eye Tracking Studies

Bryan Maddox (*Assessment MicroAnalytics Ltd*)

Potential Contributions of Eye Movement Parameters in Measuring Ability via Multiple-Choice Items

Marlit Annalena Lindner (*IWM, University of Tübingen*)

Technology-Based Assessments (TBAs): Using eye movement data to understand test-taker attentional behaviour

Paula Lehane (*Dublin City University*)

The smell of paper or the shine of a screen? Students' reading comprehension, text processing, and attitudes when reading on paper and screen

Ragnhild Engdal Jensen (*University of Oslo*)

9.00am-9.45am Session 5.9 TOPIC Validity and fairness in cross-cultural testing, psychological assessment and survey research

Room 9

Chair: Yaseen Ally (*Nelson Mandela University*)

Can an adjustment index address the norming challenges in testing in South Africa?

Investigating the use of an index to adjust scores

Yaseen Ally (*Nelson Mandela University*)

Decolonising Outcome Measurement with Kaupapa Māori Psychometrics: A systematic review and methodological quality appraisal of health and wellbeing measures for Māori

Richard Siegert (*Auckland University of Technology*)

Using Critical Quantitative Methodology and MIMIC Modeling for Justice-Oriented and Antiracist Measurement

Matthew Diemer (*University of Michigan*)



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9.55am -10.55am	INVITED PANEL Shared, Insights and Unique Perspectives: What Can Psychological Testing and Assessment Learn from Innovations in Survey Research and Vice Versa Plenary Room 10 Chair: Beatrice Rammstedt (<i>GESIS Deputy President, and Survey Design and Methodology Head of Department, Germany</i>), Ana Villar (<i>Survey Methodologist at Meta, UK</i>), Bruno D. Zumbo (<i>University of British Columbia Distinguished University Scholar and Professor, Canada</i>)
10.55am-11.45am	Coffee break



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10.55am-11.45am

Poster session 3

Room: Exhibition Hall

TOPIC Translation of tests, psychological assessment instruments and survey questionnaire

1 Exploratory Graph Analysis VS Exploratory Factor Analysis: A comparison of two methods for identifying the dimensional structure of the SHSS.

Alberto Sanchez-Fernandez-Quejo, Carla Perez-Guerra, Marco Innamorati, Alejandro de la Torre-Luque

2 Adaptation and Validation of the "Detail and Flexibility Questionnaire (DFlex)" in a Spanish Population. Alicia Georgiades, Esteve Montasell, Ester Serrano, Beatriz Lanceta, Jordi Alabernia, Antoni Grau.

3 Spanish adaptation of the Hierarchical Taxonomy of Psychopathology-Self Report (HiTOP-SR): cultural issues across different Spanish-speaking countries. Ana María de la Rosa-Cáceres, Carmen Díaz-Batanero, Deisy Gonzalez-Zapata, Melissa Briones, Jennifer Callahan, Nazaret Fresno Cañada, Roman Kotov, Leonard Simms, B. Villalobos, Camilo J. Ruggero

4 Why is translating and analyzing the internal structure of scales not enough to certify their suitability in other cultures? An example with the Psychological Functioning Scale.

Ana Paula Noronha, Ligia Santis, Monique Guimarães, Ana Paula Cavallaro, Leila Couto

5 Focus on selection versus development for increased job performance. Four decades of research and a Monte Carlo simulation of individual differences and job attitudes.

Dragos Iliescu, Andreea Corbeanu, Andrei Ion

6 Psychometric Properties of the Spanish-SAM Motives Measure (S-SMM) among Young Adults who use cannabis.

Bella María González Ponce, Lucía Vélez-Pérez, Angelina Pilatti, José Carmona-Márquez

7 The Development of the SEL-90 Test.

Butucescu Andreea, Iliescu Dragos

8 Development of the Index of Intensity of Violence Against Women (IIVM) in Peru.

Carlos Renzo Rivera Calcina, Rodolfo J. Castro Salinas, Walter L. Arias Gallegos, Mitchell Clark

9 An Analisis of the Partner's Perceived Responsive Scale in Mexico.

Carolina Armenta Hurtarte, Pablo Tonathiu Salcedo Callado, María Bárbara Rivero Puente

10 Design and development of a Gamified Test to assess Critical Thinking in Personnel Selection Contexts.

Virginia Arranz, Sonia Rodríguez, Beatriz Lucía, David Aguado

11 Psychometric properties of the Screening Test for Reading and Spelling Difficulties for Lithuanian speakers in second grade.

Dovile Butkiene, Reda Gedutiene, Lauryna Rakickiene, Kestutis Dragunevicius, Grazina Gintiliene

12 The Zarit Burden Interview (ZBI-12): A Reliability Generalization Meta-analysis.

Elena Cejalvo Herraiz, Júlia Gisbert-Pérez, Laura Badenes-Ribera, Manuel Martí-Vilar

13 Psychometric properties and normative data of the Spanish S-UPPS-P Impulsive Behavior Scale in adolescents.

Esteve Montasell-Jordana, Eva Penelo, Laura Blanco-Hinojo, Anna Soler, Beatriz Lanceta, Alba Ollé, Jesús Pujol, Joan Deus

14 Critical consciousness in sport scale (CCSS): Development and psychometrics properties.

Evandro Peixoto, Martin Camiré

15 Functional Social Support assessment in Primary Health Care: a validation study of the DUKE-11-UNC in Spanish Primary health care users.

Irene Gómez Gómez, Juan Ángel Bellón, Isabel Benítez, Patricia Moreno-Peral, Ana Clavería, Joan Llovera, José Ángel Maderuelo-Fernández, Rosa Magallón, Alvaro Sánchez Pérez, Bonabentura Bolibar, Emma Motrico

16 A psychometric analysis of the Emotion Regulation Questionnaire.

Jennifer Pérez-Sánchez, Ana R. Delgado, Gerardo Prieto



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17 Transcultural adaptation of the REMICOM Test for the assessment of children's text comprehension monitoring.

Jesica Formoso, Nuria Calet Ruiz, Juan Pablo Barreyro, Bárbara Gottheil, Gracia Jiménez Fernández

18 Spanish validation of the Dragons of Inaction Psychological Barriers.

Jone Aliri, Laura Vozmediano, Laura Pasca, Olatz Goñi-Balentziaga

TOPIC Construct or concept equivalence

19 The Cross-Cultural Generalizability of Cognitive Ability Measures: A Systematic Literature Review.

Christopher Wilson, Stephen Bowden, Linda Byrne, Nicole Joshua, Wolfgang Marx, Lawrence Weiss



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- 11.45am-1.00pm** **Session 6.1 SYMPOSIUM** Continuous Norming: Recent Advancements in Research and Application – Part B
Topic: Innovations in test development
Room 1
Chair: Jan-Philipp Freudenstein (*Hogrefe Publishing Group*)
- Adjusting for non-representativeness in continuous norming with Multilevel Regression and Poststratification (Psychometric modeling)
Klazien de Vries (*University of Groningen*)
- Sample size calculation and optimal design for univariate and multivariate regression-based norming (Innovations in test development)
Francesco Innocenti (*Maastricht University*)
- Item Response Theory Based Continuous Test Norming (Psychometric modeling)
Hannah Heister (*University of Groningen/Netherlands*)
- More efficient continuous test norming by using prior norm information (Psychometric modeling)
Lieke Voncken (*Tilburg University*)
- 11.45am-1.00pm** **Session 6.2 SYMPOSIUM** Debating Foundational Competencies in Educational Measurement: International Perspectives on an NCME Task Force Consensus
Topic: International assessment
Room 2
Chair: Andrew Ho (*Harvard University*)
Discussant: Alina von Davier (*Duolingo*)
- Navigating the Foundational Competencies in Educational Measurement: Enhancing validity, validation, and fairness through comprehensive approaches (International Assessment)
Isabel Benitez (*University of Granada*)
- On the future integration of foundational competencies frameworks in connected professions (International assessment)
Dragos Iliescu (*University of Bucharest*)
- What is truly foundational: Continuing the conversation on the Foundational Competencies in Educational Measurement (International assessment)
Lisa Keller (*University of Massachusetts Amherst*)
- Foundational Competencies in Educational Measurement: An NCME Task Force Consensus (International assessment)
Andrew Ho (*Harvard University*)
- 11.45am-2.00pm** **Early Career Scholars Meeting**
Room 3
- 11.45am-1.00pm** **Session 6.4 SYMPOSIUM** Exploring Human Dimensions - Love, Moral Dilemmas, Well-being, and Cultural Sympathy
Topic: Translation of tests, psychological assessment instruments and survey questionnaire
Room 4
Chair: Alejandra Dominguez Espinosa (*Universidad Iberoamericana*)
- Validation of the Romantic Love Myths Scale of Bonilla-Algovia and Rivas-Rivero in a group of Mexican participants (Translation of tests, psychological assessment instruments and survey questionnaire)
Carolina Armenta Hurtarte (*Universidad Iberoamericana*)
- Assessing tolerance to corruption through moral dilemmas: psychometric properties of a measurement (Translation of tests, psychological assessment instruments and survey questionnaire)
Alejandra del Carmen Domínguez-Espinosa (*Universidad Iberoamericana Ciudad de México*)
- The measurement of subjective well-being in Mexico: A psychometric analysis of the ENBIARE 2021 (Validity theory in testing, psychological assessment and survey research)
José Luis López Silva (*UNAM*)



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Proposal for Ethnopsychological Measurement to Estimate Agreeableness and Sympathy in Mexico (Validity and fairness in cross-cultural testing, psychological assessment and survey research)

Vanessa Edith Arellano Carranza (*Universidad Nacional Autónoma de México*)

11.45am-1.00pm **Session 6.5 TOPIC** Innovations in test development

Room 5

Chair: Nigel Evans (*NEC, UK*)

Advancing Precision and Validity with CAT and NLP

Alexandre Jaloto (*National Institute for Educational Studies and Research Anísio Teixeira (Inep)*)

Privacy and Access to Data in Chile's National Admission Test: Balancing Students' Rights and Institutional Needs

Agustin Barroilhet (*University of Chile*)

Measuring Communication and Interpersonal Skills of Pre-Service Teachers: An Experimental Study Using Frontal Alpha Asymmetry Indicators

Ahmet Haphap (*Gazi University/Turkey*)

Taking an Organimetric approach to Organisational Change

Nigel Evans (*NEC, UK*)

Qualitative procedures in developing a new emotion regulation measure for children from 4 to 6 years old

Denise Ruschel Bandeira (*Universidade Federal do Rio Grande do Sul*)

11.45am-1.00pm **Session 6.6 TOPICS** Translation of tests, psychological assessment instruments and survey questionnaire/ Validity and fairness in cross-cultural testing, psychological assessment and survey research

Room 6

Chair: Beatrice Rammstedt (*Deutschland*)

The association between changed translations and item functionality in ICCS 2022

Lauren Musu (*IEA*)

Going Global: 39 language versions of the BFI-2-XS

Beatrice Rammstedt (*Deutschland*)

SWIFT: Developing a Digital Psychometric Test for Swift Identification of Students at Risk for Learning Difficulties and Underachievement in Schools

Rebecca Good (*Education Elephant Ltd*)

Communication abilities in multilingual speakers with ADHD: insights from the Diagnostic interview for ADHD in adults

Maria Garraffa (*University of East Anglia and University of Oslo*)

Reliability and validity of the Test of Dyslexia for the Lithuanian speakers in second grade

Reda Gedutiene (*Klaipeda University, Lithuania*)

11.45am-1.00pm **Session 6.7 TOPIC** Identifying biases by qualitative or quantitative methods

Room 7

Chair: Ana Hernández (*University of Valencia, Spain*)

Reducing Evaluative Bias in Personality Assessment - Impact on Unboxing Neurodivergent Talent

Stewart Desson (*Lumina Learning*)

There's More Than Meets the Eye to Response Bias: Raising the Standards for Reporting the Integrity of Assessment Results

Carina Fiedeldey-Van Dijk (*Into Performance ULC*)

The Inexact Science of Fairness Panel Reviews: Can They Make Assessments More Culturally Relevant?

Jessica Jonson (*Buros Center for Testing - University of Nebraska-Lincoln*)

Careless responding: trait or state?

Inés Tomás Marco (*University of Valencia*)

Careless responding and DIF detection

Ana Hernández (*University of Valencia*)



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11.45am-1.00pm **Session 6.8 TOPICS** Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Validity theory in testing, psychological assessment and survey research
Room 8
Chair: Semih Topuz (*Baskent University*)

Fit for purpose or off the mark: PIRLS 2016 in South Africa
Heather Leigh Kayton (*University of Oxford*)

Integrating Validity Evidence for a Comprehensive Protocol to Assess Competencies in Incoming University Students
Juan F. Luesia (*Universidad Loyola Andalucía*)

MARKO-D a cross-cultural tool for early mathematics assessment
Victoria Espinoza (*Pontificia Universidad Católica de Chile*)

Does PISA Literacy Assessment Provide Fair Comparisons Across Participating Countries?
Semih Topuz (*Baskent University*)

11.45am-1.00pm **Session 6.9 SYMPOSIUM** Construct Validity of International WISC Versions: Informing Evidence Based Assessment
Topic: Validity and fairness in cross-cultural testing, psychological assessment and survey research
Room 9
Chair: Gary Canivez (*Eastern Illinois University/USA*)

Construct Validity of the Canadian WISC-V with an Indigenous Sample: Hierarchical EFA and CFA
Gary Canivez (*Eastern Illinois University*)

Construct Validity of the Korean WISC-V: Hierarchical EFA and CFA
Gary Canivez (*Eastern Illinois University/USA*)

Construct Validity of the Australia/New Zealand WISC-V: Hierarchical EFA and CFA
Ryan McGill (*William & Mary*)

Construct Validity of the Brazilian WISC-IV: Hierarchical EFA and CFA
Solange Muglia Wechsler (*Pontifical Catholic University of Campinas-Brazil*)

1.00pm-2.00pm **Conference Lunch**

2.00pm-3.15pm **Session 7.1 SYMPOSIUM** Tech and Talent Synergy: Innovation for DEI, Individual, and Organizational Performance
Topic: Innovations in test development
Room 1
Chair: Maximilian Jansen (*Welliba*), Richard Justenhoven (*Welliba*)

Perceptions of Image- and Questionnaire- Based Personality Measures Among Neurodivergent Adults
Franziska Leutner (*Goldsmiths*)

Advancing Fairness by Reducing Subgroup Differences with a New Logical Assessment
Mats Englund (*Fairsight/Sweden*)

Continuous Insights, Lasting Impact: The interaction of mindset and context factors in shaping Employee Experience
Maximilian Jansen (*Welliba/Germany*)

Job Satisfaction and Performance: What are the Great 8 Drivers of Job Success?
Michele Guarini (*Denmark*)



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- 2.00pm-3.15pm** **Session 7.2 ROUND TABLE** Challenges and Strategies: Measurement and Testing Associations in Focus
Topic: International assessment
Room 2
Chair: Nekane Balluerka (*University of the Basque Country*)
Panelists: Nigel Evans (*European Federation of Psychological Associations*), Ana Hernández (*European Association of Methodology*), Albert Sesé (*Spanish Association of Methodology*), Stephen G. Sireci (*International Test Commission*)
- 2.00pm-3.15pm** **Session 7.3 SYMPOSIUM** Bridging International Perspectives on Socioemotional Learning and Assessment
Topic: Validity and fairness in cross-cultural testing, psychological assessment and survey research
Room 3
Chair: Javier Suárez-Álvarez (*University of Massachusetts Amherst*)
Discussant: Beatrice Rammstedt (*GESIS – Leibniz-Institute for the Social Sciences, Germany*)
- Assessing Socio-emotional Skills in Spain: Development and Validation of the Spanish Version of BESSI
Álvaro Postigo (*University of Oviedo*)
- Validation and scaling of the OECD Survey on Social and Emotional Skills (SSES)
Elena Govorova (*2E Estudios & Evaluaciones*)
- Assessing Social-emotional Skills using SENNA: Development, Psychometrics and Validity
Ricardo Primi (*Universidade São Francisco & EduLab21 Ayrton Senna Institute*)
- Conociendo mis Logros and AVANZO: A Comprehensive Emotional Wellbeing Assessment in El Salvador's Education System.
Fernando Mena (*University of Massachusetts Amherst*)
- 2.00pm-3.15pm** **Session 7.4 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire
Room 4
Chair: Therese Hopfenbeck (*University of Melbourne*)
- Beyond Surveys: Multi-Modal Measures of 21st Century Skills Across Classrooms
Therese Hopfenbeck (*Assessment and Evaluation Research Centre, University of Melbourne, Australia*)
- Evaluating the Quality of University Curriculum: A Theoretical Framework, Methodology, and Empirical Analysis
Wen Wen (*Tsinghua University*)
- Utilizing the Ability to Identify Criteria (ATIC) to Select Personnel
Yolandi-Eloise Fontaine (*Stellenbosch University*)
- Ethical principles in Artificial Intelligence telerehabilitation for neurodevelopmental disorders: Development of a questionnaire for survey research
Aurora Castellani (*University of Perugia*)
- 2.00pm-3.15pm** **Session 7.5 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire
Room 5
Chair: Camila Martínez (*Pontifical Catholic University of Chile*)
- Integrating Transformer Models for Culturally Adaptive Trait Classification
Tales Marra (*AssessFirst*)
- Executive functions in blind and deaf children: a Tablet-based assessment
Camila Martínez (*Pontifical Catholic University of Chile*)
- Psychometric properties of Cattell's Fluid Intelligence Test (CFT 20-R) in Lithuanian sample of 8–17 year olds
Sigita Girdzijauskienė (*Vilnius University*)
- Validation of the IDS-15 among Italian Adolescents
Adriana Lis (*University of Padova*)
- What Does It Take To Make It: The Dark Side Of The Performing Arts
Melissa McMullan (*Edinburgh Napier University*)



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2.00pm-3.15pm **Session 7.6 SYMPOSIUM** Generative AI and Large Language Models: Applications and Research Directions in Psychological Sciences
Topic: Artificial Intelligence in testing, psychological assessment and survey research
Room 6
Chair: Hudson Golino (*University of Virginia*)
Discussant: Hudson Golino (*University of Virginia*)

Decoding Emotions: Facial Expression Recognition with Transformer Models using the transforEmotion Package in R (Artificial Intelligence in testing, psychological assessment and survey research)

Aleksandar Tomasevic (*Department of Sociology, University of Novi Sad*)

Monticello Simulations: How Generative AI change how we do simulations in quantitative psychology (Artificial Intelligence in testing, psychological assessment and survey research)

Hudson Golino (*University of Virginia*)

Assessing the Quality of AI-Generated Items: A Network Psychometric Approach (Artificial Intelligence in testing, psychological assessment and survey research)

Lara Russell-Lasalandra (*University of Virginia*)

Enhancing Student Evaluations of Teaching with Large Language Models: Insights from Active Learning Pedagogy (Artificial Intelligence in testing, psychological assessment and survey research)

Mariana Teles (*University of Virginia*)

2.00pm-3.15pm **Session 7.7 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire / Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Identifying biases by qualitative or quantitative methods
Room 7
Chair: Felipe Valentini (*University São Francisco, Brazil*)

Unveiling Cultural Biases: Exploring the Efficacy of Ipsative Methods in Recruitment Tools in Indonesia

R. Brahma Aditya (*Daya Dimensi Indonesia/Indonesia*)

Differential Prediction in an African Context: Analysing Personality and Sources of Bias in Selection

Andrew Morris (*JVR*)

The discrepancy between manifest response on a Likert-type scale and the most fixated response option as an indicator of social-desirable responding

Stanislav Ježek (*Faculty of Social Sciences, Masaryk University*)

A Methodological Approach to Evaluating and Selecting Overclaiming Items

Felipe Valentini (*University São Francisco, Brazil*)

Item Level Exploration of Applicant Faking Behaviour on Personality Measures: The importance of Cognitive Ability and Demographic Variables

Mollie Tatlow (*Thomas International/ UK*)

2.00pm-3.15pm **Session 7.8 TOPIC** Validity theory in testing, psychological assessment and survey research
Room 8
Chair: Joshua Chiroma Gandhi (*Nigerian Defence Academy, Kaduna, Nigeria*)

Psychometric Parsimonious Parameterization for Evidential Accuracy and Precision

Joshua Chiroma Gandhi (*Nigerian Defence Academy, Kaduna, Nigeria*)

Advancing Linguistically and Culturally Fair and Community-Relevant Assessments

Pohai Kukea Shultz (*University of Hawaii/United States*)

Reduction of Faking Using a Forced-Choice Format: Is It Pancultural?

HyeSun Lee (*California State University Channel Islands*)

Factor Analysis under multimodal latent distributions: A simulation study

Oscar Lecuona (*Universidad Complutense de Madrid*)

Gender DIF and gender differences in civic outcomes over time

Yuan-Ling Liaw (*IEA Hamburg*)



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2.00pm-3.15pm **Session 7.9 TOPIC** Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Validity theory in testing, psychological assessment and survey research
Room 9
Chair: Maria Elena Oliveri (*Buros Center for Testing*)

Development and Validation of an Integrative Employee Well-being Scale
Clara Y.W. To (*DIOP, The Hong Kong Psychological Society*)

Sociocultural Approaches to Assessing Work-Aligned Engineering Competencies
Maria Elena Oliveri (*Buros Center for Testing*)

Examining Methodologies for Contextual Information in Large-Scale Assessments
Priyanka Sharma (*India*)

Receptivity to Instructional Feedback: A Cross-cultural Validation Study
Carolina Lopera Oquendo (*City University of New York*)

Comparison of two methods to obtain the dimensionality of an instrument: factorial analysis Vs. Rasch analysis
Angélica Garzón Umerenkova (*Fundación Universitaria Konrad Lorenz - Facultad de Psicología (Bogotá-Colombia)*)

3.25pm-4.40pm **Session 8.1 TOPIC** Innovations in test development
Room 1
Chair: Tatjana Kanonire (*HSE University*)

How modern psychometrics can change intelligence testing in children and adolescents
Tatjana Kanonire (*HSE University*)

Unlocking Natural Language Processing: Predicting Item Difficulty in the Brazilian High School Exam (Enem) Without Pre-Testing
Alexandre Jaloto (*National Institute for Educational Studies and Research Anísio Teixeira (Inep)*)

Automatic Item Generation for Large-scale Assessment Instruments: A Mexican Perspective
Citlalli Sanchez-Alvarez (*Universidad Autónoma de Baja California/Mexico*)

3.25pm-4.40pm **Session 8.2 SYMPOSIUM** Personality and Potential Across Languages and Cultures
Topic: International assessment
Room 2
Chair: Lauren Jeffery-Smith (*Saville Assessment, United Kingdom*)
Discussant: Rab Maclver (*Saville Assessment*)

Assessing Leadership Potential Across Different Cultures (International assessment)
Lauren Jeffery-Smith (*Saville Assessment, United Kingdom*)

Multi-lingual Development of the Great 8 Success Factors (Translation of tests, psychological assessment instruments and survey questionnaire)
Rainer Kurz (*HUCAMA*)

Assessments and Machine vs Human Translation (Translation of tests, psychological assessment instruments and survey questionnaire)
Camille Stevenson (*Saville Assessment*)

3.25pm-4.40pm **Session 8.3 SYMPOSIUM** Test Validity 2.0: Mathematics, Quantum Information Theory, Movies, Music and Jokes
Topic: Validity theory in testing, psychological assessment and survey research
Room 3
Chair: Hudson Golino (*University of Virginia*)
Discussant: Bruno Zumbo (*University of British Columbia*)

Big Questions with Even Bigger Psychometricians: The Construct of Egomania Rageosis and The Theory of Everything
Bruno Zumbo (*University of British Columbia*)

Is there a natural law of validity or why Marlon Brando was so damn good as Don Corleone in The Godfather?
Hudson Golino (*University of Virginia*)



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3.25pm-4.40pm **Session 8.4 TOPIC** International assessment

Room 4

Chair: Sharon Hague (*Pearson Assessments*)

TIMSS 2019 Equivalence Study: A Mixed-method Approach to Explore Assessment Mode Effects on Mathematics Performance in England

Grace Grima (*Pearson Education UK*), **Liyuan Liu** (*Pearson Education UK*)

Estimating Missing Home Socioeconomic Status in PIRLS using Student and School Questionnaire Data: A MICE Simulation

João Marôco (*William James Centre for Research, ISPA - Instituto Universitário. Portugal*)

International Assessment Reform-A Case Study in Egypt

Sharon Hague (*Pearson Assessments*)

3.25pm-4.40pm **Session 8.5 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire

Room 5

Chair: Anita Obrycka (*1. World Hearing Center, Institute of Physiology and Pathology of Hearing, Kajetany/ Warsaw, Poland*)

Validation of AQoL-8D measures: a health-related quality of life questionnaire for adult patients referred for otolaryngology

Anita Obrycka (*1. World Hearing Center, Institute of Physiology and Pathology of Hearing, Kajetany/ Warsaw, Poland*)

Developing culturally sensitive and linguistically accurate versions of a music-based assessment for adults with disorders of consciousness

Wendy Magee (*Temple University, Philadelphia, USA*)

What is psychometric norm? Contemporary challenges for cultural adaptation of questionnaires for the assessment of mental disorders in adolescents

Joanna Stanczak (*Pracownia Testow Psychologicznych PTP*)

3.25pm-4.40pm **Session 8.6 SYMPOSIUM** Applications of Artificial Intelligence to Support Human and Automated Scoring of Constructed Responses

Topic: Artificial Intelligence in testing, psychological assessment and survey research

Room 6

Chair: Edward Wolfe (*Pearson*)

Discussant: Michelle Meadows (*Oxford University*)

An Application of Data Augmentation to Automated Scoring Engine Training

Edward Wolfe (*Pearson*)

Curation of Validity Evidence for Applications of GPT4 in CR Scoring Systems

Jodi Casabianca-Marshall (*Educational Testing Service*)

Developing & Evaluating a Hybrid-Marking System to Combine AI & Human Scoring Models

Mark Brenchley (*Cambridge University Press & Assessment*)

3.25pm-4.40pm **Session 8.7 TOPIC** Construct or concept equivalence

Room 7

Chair: Velichko Fetvadjiiev (*University of Amsterdam*)

The South African Personality Inventory (SAPI) across Cultures

Velichko Fetvadjiiev (*University of Amsterdam*)

Assessment of collective efficacy and social cohesion in the context of policing

Miguel Inzunza (*Unit of Police Work/Umeå University/Sweden*)

Exploring Construct Equivalence of Items in Standardized Performance Testing: A Meta-Analytical Perspective on Response Formats

Sonja Breuer (*Paris Lodron University of Salzburg*)



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3.25pm-4.40pm **Session 8.9 SYMPOSIUM** Equitable Selection into Initial Teacher Education Programs:
The role of innovation, transparency and feedback
Topic: Validity and fairness in cross-cultural testing, psychological assessment and
survey research
Room 9
Chair: Therese Hopfenbeck (*University of Melbourne*)
Discussant: Wayne Cotton (*University of Sydney*)

Assessing the competencies and characteristics of prospective teachers: A fair selection process?
Laura Smith (*University of Melbourne*)

Technology and Contemporary Assessment: The challenges for Academic Integrity
Janet Clinton (*University of Melbourne*)

Developing evaluative thinking through sound assessment processes
Wayne Cotton (*University of Sydney*)

4.40pm-5.30pm **Coffee break**



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4.40pm-5.30pm

Poster session 4

Room: Exhibition Hall

TOPIC Validity and fairness in cross-cultural testing, psychological assessment and survey research

1 Are we really all that different? Examining Country and Gender Differential Item Functioning of the PROMIS Anxiety-8a.

Anita M. Hubley, Amanda Rose Dumoulin, Xuyan Tang, Sophie Ma Zhu

2 Hazard Prediction Test to assess drivers who suffered a stroke and healthy drivers.

Candida Castro, Daniel Salazar-Frías, Lucía Laffarga, Ana Szot, María Rodríguez Bailón

TOPIC Translation of tests, psychological assessment instruments and survey questionnaire

3 Psychometric Properties of the Spanish Version of the Cannabis Refusal Self-Efficacy Questionnaire (S-CRSEQ-13) among Young Adults who use cannabis.

Bella María González Ponce, Nehemías Romero-Pérez, Adrian J. Bravo, Fermín Fernández-Calderón

4 Assessing Teachers' Rational Number Knowledge: An Evaluation of Initial Validity Evidence.

Joanne Joo, Leanne Ketterlin Geller, Sarah Powell, Erica Lembke

5 Psychometric properties of the Smartphone Addiction Scale (SAS-SV) in adolescents in Peru.

Joel Figueroa-Quñones

6 Analyzing Age-Based Measurement Invariance: A Study of the Basque Adaptation of the GPIUS-2 in Problematic Internet Use.

Jone Aliri, Olatz Goñi-Balentziaga, Nekane Balluerka, Arantxa Gorostiaga

7 Competitive Latent Structures for the Comic Style Markers: Developing a Psychometrically Sound Short Version Using Spanish and US American Samples.

Jorge Torres-Marín, Ginés Navarro-Carrillo, Mariela Bustos-Ortega, Sonja Heintz, Hugo Carretero-Dios

8 Video Game Dependency Scale: A Reliability Generalization Meta-analysis.

Júlia Gisbert-Pérez, Elena Cejalvo, Manuel Martí-Vilar, Laura Badenes-Ribera

9 Operational definitions and measurement of Externalizing: an integrative review and a new proposal.

Lidia Torres Rosado, Cinta Mancheño Velasco, Alberto Parrado González, Óscar Lozano Rojas

10 Voluntary Simplicity and Social Psychology: creation of a scale.

Luis Mundi López, Chiara Ambrosio, Eva Moreno-Bella, Josefa Ruiz Romero, Andrea Velandia Morales, Guillermo Willis Sánchez.

11 Validation of the Spanish version of the Emotional Style Questionnaire.

María Dolores Lopez-Martinez, María Dolores Hidalgo-Montesinos

12 Cross-Cultural Adaptation of the Perth Alexithymia Questionnaire (PAQ) for the Brazilian Context.

María Julia De Melo Amorim Venâncio, Cristiane Faiad de Moura

13 Optimization of a self-regulation for learning online scale using IRT information.

Mariel Fernanda Musso, Eduardo C. Cascallar

14 Psychometric properties of the EPIP Scale in Health Sciences students from a Peruvian university.

Mercedes Merryll Jesus Peña, Antonella Alexandra Gallegos Arteaga, Rabbi Robinson Reyes Robles

15 The Kuwaiti-Arabic Trait Emotional Intelligence Questionnaire-Short Form: The Adaptation and Validation of the TEIQue-SF in Kuwait.

Nasser Hasan, Konstantinos Petrides

16 The Illness Management and Recovery Scale: Translation and validation study of the Spanish version.

Nuria Martín Ordiales, M^a Dolores Hidalgo Montesinos, Maite Barrios Cerrejon, M^a Pilar Martín Chaparro

17 The Screen for Cognitive Impairment in Psychiatry-Spanish in older adults: Preliminary analysis of its dimensionality and internal consistency.

Oscar Pino, Georgina Guilera, Vanessa Sanz, Maria Guallart, Emilio Rojo, Juana Gómez-Benito



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18 Psychometric properties of ITQ and IPQ: Adaptations to the Spanish context to measure efficacy of Virtual Environments to generate emotional states.

Pablo Doncel, Miguel-Angel Muñoz, Maria Blasa Sanchez-Barrera, Pedro Garcia-Fernandez, Francisco Gómez, Jolanda Tromp, Daniel Salazar-Frías, Andreea Ionela Dinu, Candida Castro

19 Perceived utility of Q-matrices in the translation of diagnostic assessments: Translating an academic literacy test used for diagnostic purposes.

Sanet Steyn

5.30pm-6.30pm

ITC General Meeting
Room 10

8.30pm

Gala Dinner (Carmen de los Mártires)



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FRIDAY JULY 5th

8.30am-9.45am **Session 9.1 SYMPOSIUM** MatriKS: a New Computerized Raven-like Test for the Efficient Assessment of Fluid Intelligence
Topic: Innovations in test development
Room 1
Chair: Debora de Chiusole (*University of Padua*)

Convergent and divergent validity of MatriKS: A new tool to assess fluid intelligence
Alice Bacherini (*University of Perugia, Italy*)

Enhancing the assessment of fluid intelligence with MatriKS: Insights from knowledge space theory and multi-method analysis techniques
Debora de Chiusole (*University of Padua*)

Italian adaptation of the System Usability and Acceptance Model scale: application to MatriKS a new digital test for fluid intelligence assessment.
Matilde Spinoso (*Department of Psychology Renzo Canestrari, University of Bologna*)

Developmental trajectories of accuracy and type of errors in fluid intelligence assessment as detected by a new digital tool: MatriKS
Matilde Spinoso (*University of Bologna*)

8.30am-9.45am **Session 9.2 SYMPOSIUM** Implementation of Teacher Performance Assessments Internationally
Topic: International assessment
Room 2
Chair: Jon Twing (*University of Sydney*)
Discussant: Lisa Keller (*University of Massachusetts*)

Teacher Preparation and Performance Assessment
Mark Grant (*Australian Institute for Teaching and School Leadership, AITSL*)

Assessment for Graduate Teaching (AfGT)
Janet Clinton (*University of Melbourne*)

A TPA called the AfGT with AI & ML
Wayne Cotton (*University of Sydney*)

The Similarity and Differences in Teacher Performance Assessments Internationally
Jon Twing (*University of Sydney*)

8.30am-9.45am **Session 9.3 TOPIC** Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Validity theory in testing, psychological assessment and survey research
Room 3
Chair: Solange Muglia Wechsler (*Pontifical Catholic University of Campinas-Brazil*)

Psychological assessment in Latin American countries: Perspectives and Challenges
Solange Muglia Wechsler (*Pontifical Catholic University of Campinas-Brazil*)

Innovative Development and Validation of Tale Me More®, a Multicultural Professional Profiling Model: Integrating Theory and Practice
Céline Jouffray (*Talent Tale - France*)

Preliminary Validation of the Music therapy Sensory Instrument for Cognition, Consciousness and Awareness (MuSICCA): Face Validity
Wendy Magee (*Temple University Philadelphia USA*)

Examining the Predictive Validity of the Romanian Adaptation of the Conners-3 Short Form for ADHD Diagnosis
Serban Zanfirescu Zanfirescu (*University of Bucharest*)

Validity evidence of the Pornography Consumption Inventory: Relationship with subjective and objective sexual arousal measures
Oscar Cervilla Saez (*Mind, Brain and Behavior Research Center, CIMCYC*)



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8.30am-9.45am **Session 9.4 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire

Room 4

Chair: Joshua McGrane (*The University of Melbourne*)

Evaluating an AI-based method for predicting language DIF in high-stakes, cross-language science assessments

Joshua McGrane (*The University of Melbourne*)

Asymmetrical Item Response Models

Jorge Bazán (*University of São Paulo*)

Cross-Cultural Validation: English version of the Problematic Use of Social Networking Sites Questionnaire

Covadonga González-Nuevo (*University of Burgos*)

Psychometric Investigation of Fairness: Role of Test Content Language and Student's Language

Jordan Southcott (*Multi-Health Systems*)

Beach Centre Family Quality of Life Scale: Urdu Translation, Adaptation, and Validation in the Context of Mental Illness in Pakistan

Rabia Khawar (*Department of Applied Psychology, Government College University Faisalabad, Pakistan*)

8.30am-9.45am **Session 9.5 SYMPOSIUM** Forced-Choice Measurement - Investigating Response Processes

Topic: Psychometric modeling

Room 5

Chair: Susanne Frick (*TU Dortmund University*)

Modelling 'intermittent faking' on forced-choice questionnaires

Anna Brown (*University of Kent*)

Trifactor Change Models for Likert and Force Choice Questionnaires

Nigel Guenole (*Goldsmiths, University of London*)

Careless Responding in Multidimensional Forced-Choice Questionnaires: What Does it Look Like and how can it be Detected?

Rebekka Kupffer (*University of Kaiserslautern-Landau*)

Using Process Data to Understand Response Processes Underlying Faking in Questionnaires

Susanne Frick (*TU Dortmund University*)

9.00am-9.45am **Session 9.6 TOPIC** Artificial Intelligence in testing, psychological assessment and survey research/ Innovations in test development

Room 6

Chair: Ken Clark (*Responsive Translation*)

Innovations in test development

Emeric Kubiak (*AssessFirst*)

Ambiguity in Educational Assessments: The Impact of LLM AI on Source Preprocessing in the Translation Workflow

Ken Clark (*Responsive Translation / United States of America*)

The Impact of DIF on Item Selection of Machine Learning Algorithms

Weldon Zane Smith (*California State University Channel Islands*)



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8.30am-9.45am **Session 9.7 TOPIC** Identifying biases by qualitative or quantitative methods/ Translation of tests, psychological assessment instruments and survey questionnaire

Room 7

Chair: Ronja Runge (*University of Hildesheim, Germany*)

Anchoring Vignettes: A Useful Tool to Measure and Correct for Cultural Bias in Parent Reports on Their Child's Mental Health?

Ronja Runge (*University of Hildesheim, Germany*)

Relationships between illegitimate tasks and employees' psychological distress: A Cross-level moderated mediating model

Yingwu Li (*Renmin University of China*)

Developing cutoff points to interpret impairment associated with depression and anxiety symptoms according to sex using the IDAS-II

Ana María de la Rosa Cáceres (*University of Huelva, Spain*)

Validation of depression anxiety stress scale (DASS 42) and the brief religious coping inventory (RCOPE) among Ghanaian population: Application of classical measurement and item response theories

Regina Mawusi Nugba (*University of Cape Coast*)

8.30am-9.45am **Session 9.8 TOPIC** Validity theory in testing, psychological assessment and survey research/ Validity and fairness in cross-cultural testing, psychological assessment and survey research

Room 8

Chair: Jasmin Kalar (*Thomas International*)

Investigating the relative predictive validity of behaviour, personality and values upon work-related outcomes

Jasmin Kalar (*Thomas International*)

Linking Personality to PsyCap: Validation of a PsyCap-based Personality Assessment using CPAI-2

Clara Y.W. To (*The Hong Kong Psychological Society*)

Development and Validation of Chinese Pictorial Big Six Personality Inventory for Children (CPBSI-C)

Weiqi Mu (*CAS Key Laboratory of Mental Health, Institute of Psychology, Chinese Academy of Sciences, Beijing, China*)

Presentation and validation of the self-capacity scale, adaptation in cross-cultural situations

Nicolas Drouin (*France*)

The Acceptance of Myths About Cyber-Sexual Violence Against Women in Spain and the United States: A Measure Invariance Study

Rocío Vizcaíno-Cuenca (*University of Granada*)

9.00am-9.45am **Session 9.9 TOPIC** Validity and fairness in cross-cultural testing, psychological assessment and survey research/ Validity theory in testing, psychological assessment and survey research

Room 9

Chair: Nicola Taylor (*University of Johannesburg*)

The predictive value of the Five Factor Model across the lifespan

Nicola Taylor (*University of Johannesburg*)

Are Participants Fully Engaged During a Test Process? A Sequential Argument and Comparison with Different Methods

Murat Doğan ŞAHİN (*Anadolu University/Turkey*)



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9.55am-10.55

KEYNOTE Seeking Validity Evidence Related to Assessment Justice

Jennifer Randall (*Dunn Family Endowed Professor of Psychometrics and Test Development, University of Michigan, USA*)

Plenary Room 10

10.55am-11.45am

Coffee break



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10.55am-11.45am

Poster session 5

TOPIC Validity and fairness in cross-cultural testing, psychological assessment and survey research

1 Humility and Modesty: Characteristic traits of the Mexican.

Bianca Pérez

2 Evaluating Sociocultural Influences on Student Interpretation in a Science Vocabulary Measure: The Utility of a Coding Rubric.

Jose Palma, Doris Baker, Holland Kowalkowski

3 Validation of the ICF Core Set for schizophrenia from the perspective of relatives: An international study.

Karina Campoverde, A.Chai Chuen, Juana Gómez-Benito, Maite Barrios, Georgina Guilera, Emilio Rojo

4 Cross-Cultural Assessment: Psychometric Requirements for a Cross-Cultural Norm of the TOP.

Kilian Hasselhorn, Jan-Philipp Freudenstein

5 Teaching tool to develop multiple-choice exams: developing and obtaining validity and reliability evidence of the Multiple-Choice Test Quality Scale (ECET).

Paula Muñoz Teno, Agustín Martínez Molina

6 Development and psychometric analysis of a new scale to measure adolescents' social and public commitment for environment.

Sofia Santisi, Caterina Primi, Angelo Panno, Luciano Romano, Maria Anna Donati

7 Harmonising the measurement of quality of life in SHARE across European regions.

Zaira Torres, Irene Fernández, Adrián García-Mollá, Amparo Oliver, José M. Tomás

TOPIC Validity theory in testing, psychological assessment and survey research

8 RPS-MAP (Route Planning Strategies in a Map) TEST: Sensitive assessment tool to identify cognitive-functional impairment related to route planning in Stroke drivers.

Lucía Laffarga, Ana Clara Szot, María Rodríguez-Bailón, Daniel A. Salazar-Frías, Pablo Doncel

9 Measurement invariance of the WISC-V in Chile: A contribution to fairness in psychological assessment.

Marcela Rodríguez-Cancino, Andrés Concha-Salgado

10 Comparison of Threshold Identification Methods for Response Time Effort across PISA Item Types: Evaluation Based on Validity Evidence.

Militsa Ivanova, Michalis Michaelides, Hanna Eklöf

11 Validation of the Pornography Consumption Inventory in the Spanish adult population.

Oscar Cervilla Saez, Ana Álvarez-Muelas, Laura E. Muñoz-García, Pablo Mangas, Gracia M. Sánchez-Pérez, Juan Carlos Sierra

12 Psychometric Properties of the Scientific Reasoning Scale: Application to the Italian Context.

Rossella Caliciuri, Margherita Lanz

TOPIC Psychometric modeling

13 A B-ESEM Model for the Impact of Event Scale-Revised (IES-R): New Conceptual and Methodological Perspectives on a Popular Cross-Cultural Measure for PTSD.

Giusy Danila Valenti, Palmira Faraci

TOPIC Translation of tests, psychological assessment instruments and survey questionnaire

14 Creation of an International Protocol for Assessing Tests, Scales, and Questionnaires (PETEYC).

Elena Govorova, Elena de la Guía, Gloria García-Moreno, Sara Díaz, Isabel Benítez



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11.45pm-1.00pm **Session 10.1 TOPIC** Innovations in test development

Room 1

Chair: Anita Rintala-Rasmus (*Psycon / Finland*)

The Validation of a Multidimensional 360-Degree Assessment Tool and Its Relationships with Supervisor Engagement, Involvement, and Burnout Tendencies

Anita Rintala-Rasmus (*Psycon / Finland*)

The identification of gifted students through a large-scale educational test: an analysis of sociodemographic characteristics

Tatiana Nakano (*Pontifical Catholic University of Campinas*)

Reforming High-stakes, Low Volume Tests

Lei Yu (*U.S.*)

Building Culturally Sustaining Assessments to Support Adult Learners: From Co-design Studies to Assessment Development and Profile Reporting

Stephen G. Sireci (*University of Massachusetts Amherst*)

11.45pm-1.00pm **Session 10.3 Early Career Scholars**

Room 3

Chair: Felipe Valentini

Identifying psychological factors that improve mathematics achievement in Grade 9 pupils from Gauteng (Quantitative, qualitative, and mixed validation methods)

Pakeezah Rajab (*Senior Researcher at JVR Psychometrics and PhD candidate at University of Pretoria*)

Five-Factor Narcissism Inventories: Psychometric Properties of the BrazilianPortuguese Versions (Translation of tests, psychological asessment instruments and survey questionnaire)

Ariela R. Lima-Costa (*São Francisco University, Campinas, Brazil*)

Balancing test-taking experience and measurement efficiency in computerized adaptive testing: should easier adaptive tests be used? (Testing equivalence by psychometrics methods)

Hanif Akhtar (*ELTE Eötvös Loránd University, Hungary. University of Muhammadiyah Malang, Indonesia*)

Public vs. Private School Dynamics: Insights into Anxiety and Depression Among Salvadoran Students.

Fernando Mena (*University of Massachusetts Amherst*)

11.45pm-1.00pm **Session 10.4 TOPIC** Translation of tests, psychological assessment instruments and survey questionnaire

Room 4

Chair: Jaime García-Fernández (*University of Oviedo*)

Spanish Adaptation of the Short-Dark Tetrad (SD4)

Jaime García-Fernández (*University of Oviedo*)

Diagnostic Adaptive Behavior Scale: Italian validation and standardization

Giulia Balboni (*University of Perugia/Italy*)

Validation of the Dyslexia Screeing Test-Junior (DST-J) in an Arabic-speaking context

Mahmoud Amer (*Sultan Qaboos University*)

Thinking and Creating Styles: Assessment in Portugal

Margarida Pocinho (*University of Madeira*)

11.45pm-1.00pm **Session 10.5 SYMPOSIUM** Forced-Choice Measurement - Challenges in Test Development
Topic: Psychometric modeling

Room 5

Chair: Markus Jansen (*University of Wuppertal*)

Developing a forced-choice personality questionnaire for the Austrian military (Psychometric modeling)

Christian Ludwig Becker (*Cupio OG – Psychologie für die Praxis*)



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Construction and Validation of the HEXACO-MFC (Translation of tests, psychological assessment instruments and survey questionnaire)

Eunike Wetzel (*University of Kaiserslautern-Landau*)

Matching Items by Social Desirability Rankings to Improve the Faking Resistance of Multidimensional Forced Choice Questionnaires (Translation of tests, psychological assessment instruments and survey questionnaire)

Killisch Jan (*RPTU Kaiserslautern-Landau*)

Test and item design in forced-choice modeling with Thurstonian linked blocks (Innovations in test development)

Markus Jansen (*University of Wuppertal*)

11.45pm-1.00pm **Session 10.7 TOPIC** Testing equivalence by psychometrics methods

Room 7

Chair: Hannah Cruickshank Campbell (*Melbourne School of Psychological Sciences, The University of Melbourne, Melbourne, Australia*)

Measurement Invariance of the Wechsler Adult Intelligence Scale–Fourth edition across US and Spain Nationally Representative Samples

Hannah Cruickshank Campbell (*Melbourne School of Psychological Sciences, The University of Melbourne, Melbourne, Australia*)

Cross-National Generalizability of the WISC-V & CHC Broad Ability Constructs Across France, Spain, and the US

Christopher Wilson (*Pearson Clinical Assessment / Australia*)

Measuring well-being in school across all school ages

Tatjana Kanonire (*HSE University*)

Non-equivalence in PISA's ESCS index: no longer comparing apples with apples

Gavin Brown (*The University of Auckland/New Zealand*)

Use of Computerised Adaptive Testing in the Content of Student Evaluations of Teaching at Higher Education

Ilker Kalender (*Bilkent University, Faculty of Education*)

11.45pm-1.00pm **Session 10.8 TOPIC** Validity theory in testing, psychological assessment and survey research/ Validity and fairness in cross-cultural testing, psychological assessment and survey research

Room 8

Chair: Maria Elena Oliveri (*Buros Center for Testing*)

The length and verbal labels do not matter: The influence of various Likert-like response formats on scales' psychometric properties

Hynek Cigler (*Masaryk University, Czech Republic*)

Examining Validity Evidence of Constructs in Applied Linguistics: A Systematic Review

Angel Arias (*Carleton University / Canada*)

Applying Multidimensional IRT Models in Validating the Dimensionality of the Future Skills Exam

Fathima Jaffari (*Senior Measurement specialist, department of Tests and Measurement, National Center for Assessment, Education and Training Evaluation Commission (ETEC), Riyadh, Saudi Arabia*)

Generative item models as learning opportunity: a psychometric analysis of 25 item models in the mathematical domain of space & form

Philipp Sonnleitner (*University of Luxembourg/ Luxembourg*)

Testing Individuals with Disabilities for International University Admissions: Learning from the United States Experience

Maria Elena Oliveri (*Buros Center for Testing*)



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1.10pm-2.10pm

SPECIAL SESSION: "Thomas Oakland Award and Closing Ceremony"

Plenary Room 10

Presentation of the Thomas Oakland Award Winner.

M^a Dolores Hidalgo, *University of Murcia, Spain. President of the Award Committee*

Presentation by the Thomas Oakland Award Winner

Presentation of the Best poster Award.

Albert Sesé, *University of the Balearic Islands, Spain. Best Poster Awards Committee*

Closing by a representative from the University of Granada.

Closing by the ITC President-Elect.

Kadriye Ercikan, *ETS, USA*

2.30pm-4.00pm

ITC Council Meeting (Council Members Only)

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