

X SEMINAR
**“DATA FROM AND FOR EDUCATIONAL SYSTEM:
TOOLS FOR RESEARCH AND TEACHING”**

Plenary Sessions

19th November: 10:30 - 11:00 a.m.

Aula Magna

Organizer: INVALSI

Chair: Roberto Ricci (President INVALSI) - Patrizia Falzetti (INVALSI)

Institutional Greetings

Roberto Ricci (President INVALSI)

Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)

[Video](#)

19th November: 11:00 a.m. - 1:00 p.m.

Plenary Session

Aula Magna

Organizer: INVALSI

Chair: Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)

Data from and for educational system: reflections based on national and international experiences

Thierry Rocher (Director for Evaluation at the Department of Evaluation, Forecasting and Performance, the Statistical Office of the French Ministry of Education)

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From Measurement to Meaning: Reimagining Assessment through Innovation and AI
Saskia Wools (Chair of the Executive Board of Cito)

[Video](#)

19th November: 4:30 - 6:30 p.m.

Panel Discussion - Research

Aula Magna

Chair: Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)

Education for Enhancing Competitiveness: What Does Educational Evidence Tell Us?

Speakers:

Julian Fraillon (Director of ICILS, IEA)

Laura Peck (Principal Scientist and Director of MEF's Income Security and Economic Mobility Domain)

Roberto Ricci (President of INVALSI)

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20th November: 11:00 a.m. - 1:00 p.m.

Plenary Session

Aula Magna

Organizer: INVALSI

Chair: Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)

The use of data from national and international assessments to Inform Policies
Carmen Sanchez Tovar (Director of National Institute for Educational Evaluation, a unit of the Ministry of Education and Vocational Training of the Spanish education system)

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One Evaluator's Commentary on the State of the U.S. Federal Evidence-Generation Enterprise

Laura Peck (Principal Scientist and Director of MEF's Income Security and Economic Mobility Domain)

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21st November: 11:00 a.m. - 1:00 p.m.

Plenary Session

Aula Magna

Organizer: INVALSI

Chair: Roberto Ricci (President of INVALSI)

Demography and Human Capital
Francesco Billari (Rector of Bocconi University of Milano)

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The state of education through the eyes of teachers Results from TALIS 2024
Andreas Schleicher (Director for Education and Skills at the Organisation for Economic Co-operation and Development)

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Parallel Sessions

19th November: 2:00 - 4:15 p.m.

Research 1

Aula Magna

Session 5. Assessing digital skills and assessing learning with digital: new challenges for schools

Organizer: INVALSI - University of Bergamo

Coordinator: Paolo Barabanti (INVALSI) - Marco Giganti (University of Bergamo)

From Frameworks to Classrooms: Digital Competences in Action. Insights from the INVALSI 2023-24 Teacher Questionnaire

Marco Giganti (University of Bergamo)

Paolo Barabanti (INVALSI)

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Profiling ICT Use and Perception in European Schools: A Two-Level Latent Class Analysis

Giulia Vaiani (Polytechnic University of Milano)

Mara Soncin (Polytechnic University of Milano)

Tommaso Agasisti (Polytechnic University of Milano)

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A Community of Practice Focused on the Development of Adaptive Assessments for Estimating Mathematical Proficiency at the Fifth-grade Level

Emanuela Botta (Università degli Studi dell'Aquila)

Stefania Pozio (Independent researcher)

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Grade 5 mathematics test in digital and paper format: What do students think?

Laura Montagnoli (INVALSI)

Francesca Ferrara (University of Torino)

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Computers and Tablets: An Exploratory Study on the Impact of the Possibilities Offered by These Digital Tools

Cintia Scafa Urbaez Vilchez (INVALSI)

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The INVALSI DigComp digital competence assessment: a data analysis to understand student proficiency profiles and support didactics

Paola Giangiacomo (INVALSI)

Monica Papini (INVALSI)

Valeria Fortunata Tortora (INVALSI)

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Digital Learning Spillovers in Education. Why Additional Digital Training Can Backfire

Massimiliano Bratti (University of Milano)

Federica Dalponte (University of Milano)

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Research 2

Room 5

Session 3. International large-scale assessments (ILSAs) methods and results

Organizer: University of Bath

Coordinator: Maria Magdalena Isac (University of Bath)

On the Compensatory hypothesis of open classroom discussion. Methodological challenges and how to address them

Diego Carrasco (Pontificia Universidad Católica de Chile)

David Torres Iribarra (Pontificia Universidad Católica de Chile)

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[Video](#)

Who Welcomes Whom? Understanding Socio-Economic Disparities in Students' Support for Equal Rights for Immigrants

Francisco Gatica (University of Bath)

Jan-Philip Wagner (University of Bath)

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[Video](#)

Gender Attitudes among Adolescents: A Systematic Review of International Quantitative Studies (2000–2024)

Natalia López-Hornickel (University of Bath)

Belen Gutiérrez de Rozas (Universidad Nacional de Educación a Distancia)

Jesús Vidal ()

Andres Sandoval-Hernández (University of Bath)

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Gamson's Mistrustful-Efficacious Political Participation Hypothesis in adolescents from 24 countries using the ICCS 2022 study

Daniel Miranda (Universidad de Chile)

Felipe Sánchez-Barría (Pontificia Universidad Católica de Chile)

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Beyond the Bifactor: Identifying Person Heterogeneity Effects in the ICCS Gender Equality Attitude Scale

David Torres Iribarra (Pontificia Universidad Católica de Chile)

Diego Carrasco (Pontificia Universidad Católica de Chile)

Fernando Ponce (Universidad Católica del Maule)

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Gender differences in perceptions of open classroom discussion using ICCS 2022

Ernesto Treviño (Pontificia Universidad Católica de Chile)

Catalina Miranda (Massey University)

Diego Carrasco (Pontificia Universidad Católica de Chile)

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A Systematic Literature Review: Categorizing and Interpreting Criticism of the International Civic and Citizenship Education Study (ICCS)

Jan-Philipp Wagner (University of Bath)

Francisco Gatica (University of Bath)

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Research 3

Room 4

Session 13. Initial Teacher Education for Secondary Schools: Evidence and Perspectives

Organizer: Pegaso Telematic University - University of Foggia

Coordinator: Anna Dipace (Pegaso Telematic University) - Andrea Tinterri (Pegaso Telematic University) - Marilena di Padova (University of Foggia)

Territorial equity in habilitation pathways: an analysis of the ratio of students/places in grade I and II secondary schools

Marika Lamacchia (University of Macerata)
Francesco Facciorusso (University of Macerata)
Maria Concetta Carruba (Pegaso Telematic University)

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KTUM: a report on the development of a small-scale pan-European standardised test to measure the mathematical content knowledge of future upper secondary mathematics teachers

Ottavio Giulio Rizzo (University of Milano)

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E-portfolio as a tool for Building Professional Identity in the Internships for Initial Teacher Education

Anna Dipace (Pegaso Telematic University)
Teresa Savoia (Pegaso Telematic University)
Cristiana D'anna (Pegaso Telematic University)
Raffaele Di Fuccio (Pegaso Telematic University)

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Can qualification pathways change the methodological choices of in-service teachers? A longitudinal analysis

Marilena di Padova (University of Foggia)
Maria Concetta Carruba (Pegaso Telematic University)
Andrea Tinterri (Pegaso Telematic University)
Anna Dipace (Pegaso Telematic University)

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Assessing the Impact of Teaching Qualification Pathways: A Longitudinal Analysis on In-Service Teachers' Self-Efficacy

Andrea Tinterri (Pegaso Telematic University)

Marilena di Padova (University of Foggia)

Maria Clara Dicataldo (University of Foggia)

Anna Dipace (Pegaso Telematic University)

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Multidisciplinary Centres and Professional Agency: Towards a New Reflective Education

Viviana Vinci (University of Foggia)

Pierangelo Berardi (University of Foggia)

Carmela Paladino (University of Foggia)

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19th November: 4.30 p.m. - 6.30 p.m.

Research 4

Room 5

Session 1. Territorial Disparities in Education: A Long-Standing Issue Addressable Through New Data and Tools

Organizer: University of Milan Bicocca - Catholic University of Milan

Coordinator: Gianluca Argentin (University of Milan Bicocca) - Elisa Manzella (Catholic University of Milan)

New evidence on math summer learning loss from Italy

Giovanni Abbiati (University of Brescia)

Gianluca Argentin (University of Milan Bicocca)

Giulia Assirelli (Catholic University of the Sacred Heart)

Rosaria Lumino (University Federico II of Naples)

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Education in Tuscan Inner Areas

Silvia Duranti (IRPET)

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Measuring Grade Overage by Exploring Its Applicative Potential and Interpretative Dimensions: A Methodological Proposal

Sibilla Maria Filippi (OXFAM Italy)

Lorenzo Luatti (OXFAM Italy)

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Unequal Educational Geographies: Mobility within the Milanese School System"

Marta Cordini (Polytechnic University of Milano)

Andrea Parma (University of Milan Bicocca)

Costanzo Ranci (Polytechnic University of Milano)

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School Segregation, Family Choices, and Mobility Trajectories in Primary Schools in Turin

Ilaria Lievore (Fondazione per la Scuola)

Veronica Mobilio (Fondazione per la Scuola)

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Investigating social issues through geospatial analysis: the case of educational poverty and accessibility to services in Catania, Italy

Daniela Ghio (University of Catania)

Elvira Celardi (University of Catania)

Agostino Marottoli (University of Catania)

Raffaele Auteri (University of Catania)

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Research 5

Room 4

Session 4 - Learning and Academic Analytics for Educational Quality: Tools for Pedagogical Action and School Governance

Organizer: INVALSI

Coordinator: Donatella Poliandri (INVALSI)

Enhancing School Evaluation and Planning through Learning Analytics – Cases from Europe

Martin Brown (University of Dublin)

Donatella Poliandri (INVALSI)

Cecilia Saint Pierre (Universidad de Valladolid)

Margot Joris (Universiteit Brussel (VUB))

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A Critical Review of Learning Analytics in Education through Socio-Technical and Situated Lenses

Stefania Capogna (University of Link)

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Students' Outcomes at the State Exam: Analysing Students' Choices in Written Tests to Improve Learning Pathways

Paolo Davoli (USR EMILIA ROMAGNA)

Francesco Orlando (USR EMILIA ROMAGNA)

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Making Sense of Data, Rethinking Spaces: A Participatory Reading of School Improvement from the Students' Perspective

Sebastiana Fisicaro (Rete Sophia 3.0)

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Data Use and Learning Analytics: Teacher Competences and Practices in Five Italian Schools

Donatella Poliandri (INVALSI)

Sara Romiti (INVALSI)

Grazia Graziosi (INVALSI)

Graziana Epifani (INVALSI)

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Exploring the use of Large Language Models for a pre-assessment of Invalsi-like tests by simulating students' behavior

Giovanni Puccetti (CNR - ISTI)

Alessandra Boscolo (University of Genova)

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20th November: 8.30 a.m. – 10.45 a.m.

Research 6

Aula Magna

Session 9 - The Italian University Under Pressure: Academic Performance

Organizer: University of Piemonte Orientale - University of Modena and Reggio Emilia - University of Bologna

Coordinator: Carmen Aina (University of Piemonte Orientale) - Fabrizio Patriarca (University of Modena and Reggio Emilia) - Giuseppe Pignataro (University of Bologna)

Leniency, and State-Driven Competition: Theory and Evidence from Higher Education

Carmen Aina (University of Piemonte Orientale)

Luca Bonacini (University of Piemonte Orientale)

Chiara Mussida (Catholic University of the Sacred Heart)

Giuseppe Pignataro (University of Bologna)

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Shaken but not Trembled: Assessing Academic Performance in the aftermath of the Emilia-Romagna Earthquake

Luca Bonacini (University of Piemonte Orientale)

Majlinda Joxhe (University of Bologna)

Fabrizio Patriarca (University of Modena and Reggio Emilia)

Giulia Santangelo (Cedefop)

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(De)Efficiency of Italian Universities: a comparative analysis of Public, Private, and Online Institutions

Tommaso Agasisti (Polytechnic University of Milano)

Gaetano Francesco Coppeta (Polytechnic University of Milano)

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Pathways to excellence: Efficiency and Best Practices in Italian Universities in Research, Collaboration, and Innovation

Anna Rita Dipierro (University of Calabria)

Angela Rella (University of Milano)

Pierluigi Toma (University of Salento)

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Open the Floodgates or Skim the Cream? Selective vs. open enrollment policies and the race for talent in Italy

Enrico Lippo (University of Milano)

Massimiliano Bratti (University of Milano)

Daniel Kreisman (University of Milano)

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High-Achieving Peers and Student Performance in Selective and Non-Selective University Programs: Evidence from Italy

Massimiliano Bratti (University of Milano)

Enrico Lippo (University of Milano)

Andrea Lopes (University of Milano, Statale)

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Early prediction of students at risk of failure: a Machine Learning Approach

Fiammetta Noccioli (INVALSI)

Michele Marsili (INVALSI)

Marcello Napoli (INVALSI)

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STEM at a Distance: Do Telematic Universities Really Narrow the Gender Gap?

Giuseppe Pignataro (University of Bologna)

Carmen Aina (University of Piemonte Orientale)

Luca Bonacini (University of Piemonte Orientale)

Chiara Mussida (Catholic University of the Sacred Heart)

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Research 7

Room 5

Session 11 - Students with a migratory background, mobility and educational pathways: new challenges for equity and inclusion

Organizer: Institute for Migration Research, Universidad de Granada - INAPP - University of Verona

Coordinator: Patrizia Rinaldi (Institute for Migration Research, Universidad de Granada) - Giovanna Filosa (INAPP) - Emanuela Gamberoni (University of Verona)

Early Skills Assessment and the Evolution of Educational Inequalities: Evidence from a Longitudinal Study in Milan

Gian Paolo Barbetta (Catholic University of the Sacred Heart)

Giulia Assirelli (Catholic University of the Sacred Heart)

Alessandro Antonietti (Catholic University of the Sacred Heart)

Paola Iannello (Catholic University of the Sacred Heart)

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First-Generation College Graduates (PrimaGen): Inclusion, Support, Empowerment A project of the State University of Milan

Angela Biscaldi (University of Milano)

Giuseppe Mazzarino (Polytechnic University of Milano)

Barbara Rosina (University of Milano)

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Learning Loss and Recovery in the COVID-19 Timeline: The Role of the Language Spoken at Home

Francesca Carimando (University of Bologna)

Loris Vergolini (University of Bologna)

Eleonora Vlach (Goethe University Frankfurt)

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Double barriers? Gender and migration background in STEM studies access

Cinzia Conti (ISTAT)

Eugenia Bellini (ISTAT)

Francesca Dota (ISTAT)

Massimo Strozza (ISTAT)

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Bridging the Gap? Educational Achievement Trajectories of Migrant Generations in Italy

Sara Fiasconaro (University of Trento)

Moris Triventi (University of Milano)

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Agenda 2030: Goals 4 and 10 for a quality and inclusive school starting with invalsi items

Ivan Graziani (I.C. Meldola)

Stefano Babini (Liceo Artistico Statale "Paolo Toschi", Parma)

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Bridging or Widening the Gap? The Role of School-Level Resources for Migrant and Native Student Achievement in Italy

Elisa Sbalchiero (University of Milano)

Emanuele Fedeli (University of Milano)

Moris Triventi (University of Milano)

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Research 8

Room 4

Session 5 – Assessing digital skills and assessing learning with digital: new challenges for schools

Organizer: INVALSI – University of Bergamo

Coordinator: Paolo Barabanti (INVALSI) – Marco Giganti (University of Bergamo)

Insights from the IEA Computer and Information Literacy Study, 2023

Julian Fraillon (IEA, Hamburg)

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Digital vs. Traditional Classrooms: An Open Match Between Data, Didactics, and Inequalities

Brunella Fiore (University of Milano Bicocca)

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Detecting Differential Item Functioning in INVALSI’s 2025 Pilot Assessment of Digital Competences

Luca Bungaro (University of Bologna)
Chiara Rita Cunsolo (University of Bologna)
Tommaso Giorgi (University of Bologna)
Patrizia Falzetti (INVALSI)

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Academic Achievement of Grade 8 Students and Digital Competence: Evidence from a Joint Analysis of INVALSI and ICILS Data

Luca Bungaro (University of Bologna)
Marta Desimoni (INVALSI)
Mariagiulia Matteucci (University of Bologna)
Stefania Mignani (University of Bologna)

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Automatic Item Generation through AI in Educational Testing: a Systematic Review

Francesca La Russa (INVALSI)

Rita Marzoli (INVALSI)

Antonella Mastrogiovanni (INVALSI)

Alessia Mattei (INVALSI)

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The M.I.E.L.E. Project: Digital Transition and Distributed Leadership in Educational Institutions

Monia Berghella (USR EMILIA ROMAGNA)

Paolo Davoli (USR EMILIA ROMAGNA)

Francesco Sacchetti (University of Urbino Carlo Bo)

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20th November: 2.00 p.m. - 4.15 p.m.

Research 9

Room 5

Session 3 - International large-scale assessments (ILSAs) methods and results

Organizer: University of Bath

Coordinator: Andres Sandoval Hernandez (University of Bath)

Italian students expected electoral participation: insights from IEA ICCS 2022

Michele Cardone (INVALSI)

Ornella Papa (INVALSI)

Rita Marzoli (INVALSI)

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Beyond Achievement Gaps: Gender Differences in Educational Quality Configurations Across OECD Countries through Latent Profile Analysis

Manuel Cheyre (Pontificia Universidad Católica de Chile)

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Analyzing the Use of Accommodations and Exclusion Rates for ICILS 2023: The French Example

Elodie Vezon Persem (DEPP French Ministry of Education)

Adrien Fernandez (DEPP French Ministry of Education)

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Indicators for sustainability and climate change education in international large-scale assessments: early insights from the IMP>ACT Project

Riccardo Pietracci (INVALSI)

Adam Coates (University of Bath)

Maria Magdalena Isac (University of Bath)

Laura Palmerio (INVALSI)

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Trends in Socioeconomic Inequalities in Reading Literacy Across Grades in European Countries Over Time

Andrea Pietrolucci (University of Milano, Statale)

Nathalie Vigna (University of Milano)

Giuliana Parente (University of Milano)

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Intercultural Competences in the International Civic and Citizenship Education Study (ICCS)

Agostino Portera (University of Verona)

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Equalizing Early? The Effects of ECEC Expansion on Achievement Levels and Gaps Across Countries

Giuliana Parente (University of Milano)

Guido Salza (University of Milano)

Moris Triventi (University of Milano)

Nathalie Vigna (University of Milano)

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Research 10

Room 4

Session 10 - Data Literacy and Data Use in a Digital Age

Session 12 - Support teachers and co-teaching models for inclusion: investigating equity in the Italian Educational System through case studies and comparative perspectives

Organizer: University of Bari - FBK-IRVAPP - INDIRE

**Coordinator: Serafina Pastore (University of Bari) - Davide Azzolini (FBK-IRVAPP) -
Sonia Marzadro (FBK-IRVAPP) - Sara Mori (INDIRE) - Serena Greco (INDIRE) - Francesca
Storai (INDIRE)**

Understanding Data Literacy for Teaching: Insights from a Focused Literature Review on
Practice in Schools

Sonia Marzadro (FBK-IRVAPP)

Davide Azzolini (FBK-IRVAPP)

Olga Gorodetskaya (FBK-IRVAPP)

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Data Literacy in the Evaluation Process of state-recognized private schools

Sara Pastore (INVALSI)

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Large-scale Assessments' Data-use: How Support Teachers' Assessment and Data Literacy

Serafina Pastore (University of Bari)

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Evaluation, Recognition, and Improvement: Using Student Questionnaires to Enhance
Teaching Quality in Upper Secondary Schools

Francesco Pisanu (Provincia Autonoma di Trento)

Paolo Pancheri (I.T.T. "G. Marconi", Rovereto)

Giuseppe Rizza (Provincia Autonoma di Trento)

Francesco Rubino (Provincia Autonoma di Trento)

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Mathematics as tool for artificial intelligence literacy

Maria Cristina Carrisi (University of Cagliari)

Sara Vergallo (University of Macerata)

Mirko Marras (University of Cagliari)

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Towards an ecology of inclusion

Graziella Arazzi (USR LIGURIA)

Marina Orselli (I.C. "Pegli", Genova)

Paola Giannoni (University of Genova)

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Support teachers and the educational community: a systemic interpretation of professional identity and training development

Sara Mori (INDIRE)

Francesca Storai (INDIRE)

Serena Greco (INDIRE)

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The role of the support teacher in inclusive schools: theoretical reflections and research perspectives on co-teaching

Giuseppe Filippo Dettori (University of Sassari)

Marialuisa Pinna (EURISPES)

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20th November: 4.30 p.m. - 6.30 p.m.

Research 11

Aula Magna

Session 8 - The Strategic Role of Data for an Evidence-Informed Culture to shed light on Teachers' Professionalism in Social Contexts

Organizer: University of Milan Bicocca - INVALSI

Coordinator: Gianluca Argentin (University of Milan Bicocca) - Paolo Barabanti (INVALSI)

Job Satisfaction and Work Meaning: Teachers in the Italian Labour Market

Ivan Blancato (University of Milano Bicocca)

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Peer review as a lever for quality improvement in vocational education and training: roles, competencies, and their assessment

Diego Boerchi (Catholic University of the Sacred Heart)

Laura Evangelista (EQAVET)

Concetta Fonzo (EQAVET)

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"Focus on Teachers' Well-Being and Motivation in the Light of Evidence-Informed Data"

Maria Chirico (MIM – Scuola Secondaria Secondo Grado)

Alessandra De Angelis (Liceo Artistico "G. Sello", Udine)

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Assessment Practices and Opinions of English as a Foreign Language Teachers: An Exploratory Study Based on Data from the INVALSI Teacher Questionnaire

Francesca La Russa (INVALSI)

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Student Participation, School Climate and Educational Governance: A National Multi-Stakeholder Survey in Upper Secondary Schools

Giulia Gabriella Pastori (University of Milano Bicocca)

Valentina Pagani (University of Milano Bicocca)

Mara Soncin (Polytechnic University of Milano)

Alessandra Maiorano (University of Milano Bicocca)

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21st November: 8.30 a.m. - 10.45 a.m.

Research 12

Room 5

Session 6 – Evaluating the Impact of Education Policies: Counterfactual Approaches and Evidence for Basic Skills Improvement

Organizer: European Commission

Coordinator: Marco Montanari (European Commission, Directorate General for Education, Youth, Culture and Sports), Daniele Vidoni (European Commission, Directorate General for Education, Youth, Culture and Sports)

The Impact of School Canteens on Academic Performance: Evidence from Primary Schools
Federica Dalponte (University of Milano)

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Computing Education and Computational Thinking: A Counterfactual Analysis Using ICILS 2023 Data

Riccardo De Alessandri (University of Piemonte Orientale)
Giovanni Lari (University of Piemonte Orientale)

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The effect of school district consolidation on student achievement and staff absenteeism

Letizia Gambi (University of KU Leuven)
Kristof De Witte (University of KU Leuven)

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Impact of Social Media on Students' Academic Performance

Giovanni Lari (University of Piemonte Orientale)
Riccardo De Alessandri (University of Piemonte Orientale)

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**“DATA FROM AND FOR EDUCATIONAL SYSTEM:
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Neoliberal and Democratic school-level policies: Global distribution and consequences for achievement inequalities

Moris Triventi (University of Milano)
Andrea Pietrolucci (University of Milano, Statale)

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Reducing the teaching penalty: the impact of an experience-based salary reform on second career teacher recruitment

Jacob Van Belle (University of KU Leuven)
Willem De Cort (University of KU Leuven)
Mike Smet (University of KU Leuven)

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Research 13

Room 4

Session 3 - International large-scale assessments (ILSAs) methods and results

Organizer: University of Bath

Coordinator: Ellen Claes (University of KU Leuven)

Children of Immigrants' Academic Effort. Evidence from PISA computer-based tests in 56 countries

Eleonora Vlach (Goethe University Frankfurt)

Loris Vergolini (University of Bologna)

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Measuring Digital Self-Efficacy in International Large-Scale Assessments: An International Comparison Between ICILS and PISA

Juan Carlos Castillo (Universidad de Chile)

Daniel Miranda (Universidad de Chile)

Tomas Urzua (Universidad de Chile)

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Moving Beyond Averages: Climate Strength and the Classroom Experience in TIMSS 2019 and 2023

Zhijun Chen (University of Bath)

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A catalogue of challenges facing the use of diagnostic classification models to analyse large-scale assessment data

Adam Coates (University of Bath)

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Trends in reading teacher shortage: Using 20 years of evidence from PIRLS

Nurullah Eryilmaz (IEA, Hamburg)

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**“DATA FROM AND FOR EDUCATIONAL SYSTEM:
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Interaction between ICT Use and Academic Performance and Educational Equity in the Italian Context

Marina García-Herrero (University of Salamanca)

Fernando Martínez-Abad (University of Salamanca)

María-José Rodríguez-Conde (University of Salamanca)

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The Effect of Early Home Learning Activities on Achievement at the End of Primary Education

Alec Kennedy (IEA, Hamburg)

Rolf Strietholt (IEA, Hamburg)

Nina Högbe (University HAW Hamburg)

Andres Strello (IEA, Hamburg)

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**“DATA FROM AND FOR EDUCATIONAL SYSTEM:
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21st November: 2.00 p.m. - 4.00 p.m.

Research 14

Aula Magna

Session 7 - Inequalities in Educational Attainment and the Role of Teachers and School Principals

Organizer: University of Piemonte Orientale - University of Milano Bicocca - University of Bergamo

Coordinator: Giorgia Casalone (University of Piemonte Orientale) - Alessandra Michelangeli (University of Milano Bicocca) - Jurgena Myftiu (University of Bergamo)

Educational segregation in upper secondary schools: a school data-based analysis

Lorenzo Luatti (OXFAM Italy)

Sibilla Maria Filippi (OXFAM Italy)

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Lost Learning and Regional Resilience: The Impact of COVID-19 on Educational Inequality in Italy

Alessandra Michelangeli (University of Milano Bicocca)

Giorgia Casalone (University of Piemonte Orientale)

Kateryna Tkach (Gran Sasso Science Institute)

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Understanding the Gender Gap in Mathematics through the Didactic Contract: Insights from INVALSI Assessments

Serena Monica (University of Ferrara)

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[Video](#)

Gender stereotypes and children's performance in primary schools

Piera Bello (University of Bergamo)

Annalisa Cristini (University of Bergamo)

Federica Origo (University of Bergamo)

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“DATA FROM AND FOR EDUCATIONAL SYSTEM: TOOLS FOR RESEARCH AND TEACHING”

Understanding compositional effects: how classes' socio-economic and ethnic composition of schools affect educational trajectories

Costanzo Ranci (Polytechnic University of Milano)

Andrea Parma (Polytechnic University of Milano)

Francisco Ferraioli (Polytechnic University of Milano)

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Intercultural Competence Profiles in Pre-Service Teachers: A Multidimensional Analysis

Giusi Antonia Toto (University of Foggia)

Guendalina Peconio (University of Foggia)

Alessandro De Santis (University of Foggia)

Pierpaolo Limone (Pegaso Telematic University)

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Evidencing the dynamics of educational inequalities: Attainment gaps in English secondary schools between 2018 and 2024

Nadir Zanini (Cambridge University Press & Assessment)

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Research 15

Room 4

Session 1 - Territorial Disparities in Education: A Long-Standing Issue Addressable Through New Data and Tools

Organizer: University of Milan Bicocca

Coordinator: Gianluca Argentin (University of Milan Bicocca) - Elisa Manzella (University of Milano Bicocca)

Educational Achievement and Territorial Inequalities in Italy: An Integrated Analysis of INVALSI and Open Government Data

Elisa Manzella (University of Milano Bicocca)

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The use of georeferenced data to analyze territorial disparities in Education

Michele Marsili (INVALSI)

Fiammetta Noccioli (INVALSI)

Patrizia Falzetti (INVALSI)

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[Video](#)

Clouded minds: the impact of air pollution on students' cognitive performance

Simone Ferro (University of Milano)

Elena Meschi (University of Milano Bicocca)

Caterina Pavese (IFO)

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Systemic Learning Loss or Territorial Disparities? The Impact of the Pandemic on Student Achievement and School Value-Added in Italy

Giulia Assirelli (Catholic University of the Sacred Heart)

Salvatore Vassallo (University of Bologna)

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**“DATA FROM AND FOR EDUCATIONAL SYSTEM:
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Inequality of Educational Opportunities by Social Background: Geographical Variations and Contextual Drivers in Italy

Moris Triventi (University of Milano)

Emanuele Fedeli (University of Milano)

Andrea Pietrolucci (University of Milano, Statale)

Nathalie Vigna (University of Milano)

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Peer Socioeconomic Effects on Academic Track Enrollment

Emanuele Fedeli (University of Milano)

Moris Triventi (University of Milano)

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**“DATA FROM AND FOR EDUCATIONAL SYSTEM:
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21st November: 4.15 p.m. - 6.15 p.m.

Research 16

Aula Magna

Session 2. Exploring Educational Poverty: Conceptual and Methodological Approaches Through the Integration of Official Statistical Data Sources

Organizer: ISTAT

Coordinator: Barbara Baldazzi (ISTAT)

Measuring Educational Poverty: An Empirical Comparison of Two Indices Using Individual-Level Data

Giulia Biazzì (University of Brescia)
Francesca Milzani (University of Brescia)

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Preschool Attendance and Long-Term Learning Outcomes for Italian Children: An Exploratory Study Using INVALSI Data

Lorenzo Maraviglia (INVALSI)
Cristina Stringher (INVALSI)

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Measuring and Mapping Educational Poverty: survey results among youth in Naples and the province

Rosaria Romano (University "Federico II" of Naples)
Rosa Fabbricatore (University "Federico II" of Naples)
Cristina Davino (University "Federico II" of Naples)

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Educational Accessibility and University Mobility: Evidence from the Italian Context

Cristian Usala (University of Cagliari)
Jacopo Moreschini (University of Cagliari)
Mariano Porcu (University of Cagliari)
Isabella Sulis (University of Cagliari)

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Educational poverty in the Italian Social Districts

Miria Savioli (ISTAT)
Elisabetta Segre (ISTAT)

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Research 17

Room 5

Session 7 - Inequalities in Educational Attainment and the Role of Teachers and School Principals

Organizer: University of Piemonte Orientale - University of Milano Bicocca - University of Bergamo

Coordinator: Giorgia Casalone (University of Piemonte Orientale) - Alessandra Michelangeli (University of Milano Bicocca) - Jurgena Myftiu (University of Bergamo)

Mathematics score determinants at Grade 5: missing values recovery and variable selection via knockoffs

Silvia Bacci (University of Firenze)
Emanuela Dreassi (University of Firenze)
Leonardo Grilli (University of Firenze)
Carla Rampichini (University of Firenze)

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Equity or Efficiency? The Role of School Principals in Mediating Accountability Pressures

Francesco Balzaretti (University of Milano)
Tommaso Agasisti (Polytechnic University of Milano)
Moris Triventi (University of Milano)

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The role of high schools' performance on inequalities in educational attainment and student mobility

Maria Berrittella (University of Palermo)
Francesco Salomone Marino (University of Palermo)

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Why Do Some Schools Perform Better Than Others? Exploring the Black Box of the School Effect

Giorgia Casalone (University of Piemonte Orientale)
Alessandra Michelangeli (University of Milano Bicocca)
Jurgena Myftiu (University of Bergamo)

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X SEMINAR

“DATA FROM AND FOR EDUCATIONAL SYSTEM: TOOLS FOR RESEARCH AND TEACHING”

Towards Participatory Teaching: the State of Active Learning in Italy

Althea Bianca Dal Ben (University of Milano Bicocca)

Anna Loi (University of Milano Bicocca)

Ivan Blancato (University of Milano Bicocca)

Sofia Ercolanoni (University of Milano Bicocca)

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The Gender Grading Gap in Italy: Heterogeneity, Trajectories, and Consequences from Large-Scale Population Student Data

Carlos J. Gil-Hernández (University of Firenze)

Giovanni Abbiati (University of Brescia)

Ilaria Lievore (Fondazione per la Scuola)

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Exploring educational inequalities through multilevel intersectional analysis (MAIHDA)

Leonardo Grilli (University of Firenze)

Enrico Contin (University of Firenze)

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