



ICSA 2025
CONFERENCE



Società
Italiana di
Statistica

ICSA 2025 CONFERENCE

FLORENCE
9-11 January

International Conference
on Sustainability Analysis

MEASURING CHANGE
FOR A RESILIENT
FUTURE

CISL study center
in Florence

The Conference Venue: Piazzuola, 71, 50133 Florence (FI).
The Conference Secretariat: info@icsa-dias.org
<https://www.icsa-dias.org/>

THURSDAY - January, 9 2025

9.30-10.30	CONFERENCE REGISTRATION	
10.30-11.00	INSTITUTIONAL GREETINGS	
11.00-12.00	PLENARY SESSION	Aula Magna
12.00-13.00	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2
13.00-14.30	LUNCH	
14.30-15.30	PLENARY SESSIONS	Aula Magna
15.30-16.30	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2
16.30-17.00	COFFEE BREAK	
17.00-18.00	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2
18.00-19.00	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2

FRIDAY - January, 10 2025

10.00-11.00	PLENARY SESSION	Aula Magna
11.00-12.00	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2
12.00-13.00	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2
13.00-14.30	LUNCH	
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SATURDAY - January, 11 2025

10.00-11.00	PLENARY SESSION	Aula Magna
11.00-12.00	PARALLEL SESSIONS	Aula Magna, Aula 1, Aula 2
12.00-13.00	POSTER SESSION	Aula Magna
13.00-14.00	CLOSING	Aula Magna
14.00-14.30	FAREWELL APERITIF	

THURSDAY - January, 9 2025

9.30-10.30

CONFERENCE REGISTRATION – WELCOME COFFEE

10.30-11.00

INSTITUTIONAL GREETINGS

AULA MAGNA

11.00-12.00

PLENARY SESSION

AULA MAGNA

Keynote speech Prof. Filomena Maggino

12.00-13.00

SOL 1

AULA MAGNA

Sustainable Urban Development, Tourism, and Transport: Challenges and Innovations in a Changing Europe"

CHAIR: Tiziano Pavanini

1. Towards sustainable tourism: an index to measure overtourism in Cinque Terre, Italy

Burlando C., Pavanini T., Traversa S.

2. Shaping the Future of Smart Sustainable Cities: Innovations, Challenges, and Global Analysis

Ciacci A., Filì T., Ivaldi E., Pavanini T. and Musso E.

3. Assessing the decarbonization of EU Maritime Transport: Impacts of European Regulatory Measures and Key Indicators

Persico L., Vottero B., Satta S.

12.00-13.00

CON 1

AULA 1

Digitalization and Innovation

CHAIR: Anna Simonetto

1. Digitalization and the agri-food sector: which conditions ensure firms' innovative intentions?

Chaparro-Banegas N., Roig-Tierno N., Calafat C., Sánchez-García M.;

2. Futures Studies and sustainable development: a long-term methodological challenge

Facioni C.

3. Enhancing spatial surveys by modelling generative pre-trained transformers for sustainable cities (ONLINE)

Calleo Y., Di Zio S.

THURSDAY - January, 9 2025

12.00-13.00

CONT 2

AULA 2

Tourism and Sustainable Practices

CHAIR: Rosanna Cataldo

1. Mapping Scientific Knowledge and Trends in Sustainable Tourism

Cataldo R., Crocetta C., Grassia M. G., Marino M., Mazza R., Stavolo A.

2. Green Tourism Destination Competitiveness in Italy before and after COVID-19 Pandemic

Urso F., Aronica M., Costantino S., Piacentino D., Cracolici M.F.

3. Classification and Analysis of Foreign Tourists Using Time Series from Mobile Phone Networks (ONLINE)

Rossetti R., Carpita M., Sagaert Y.

13.00-14.30

LUNCH BREAK

14.30-15.30

PLENARY

AULA MAGNA

"Evo Digitale"

"Influenzare le probabilità di scelta: statistica, libero arbitrio e AI nell'era delle decisioni"

15.30-16.30

SOL 2

AULA MAGNA

Sustainability and Strategic Communication in Retail: From Customer Loyalty to Competitive Advantage

CHAIR: Andrea Ciacci

1. From crisis to confidence: how strategic communication highlights the environmental and social benefits provided by Avs

Testa G., Ciacci A., Penco L., Ivaldi E.

2. Integrating Sustainability into Loyalty Programs: Insights from the Italian Grocery Retail Sector

Ciacci A., Acconciamesa E., Branca G., Castaldo S.

3. Social Sustainability and Customer Orientation: The Competitive Strategy for Small Independent Retailers (ONLINE)

Penco L., Mantovani A., Castaldo S.

THURSDAY - January, 9 2025

15.30-16.30

SOL 3

AULA 1

Young people in the labour market: Towards decent and sustainable jobs

CHAIR: Antonella Rocca

1. Rural young people and school to work transition: Trends and perspectives (ONLINE)

Simões F.

2. Italian young NEETs and their expectations for the future: a text mining analysis

De Luca G., Ellena A.M., Marta E., Mazzocchi P., Rocca A., Simões F.

3. Some prediction models for the Italian NEET rates: a comparison between SARIMAX models and machine learning algorithms

De Luca G., Rocca A., Mazzocchi P., Quintano C.

15.30-16.30

CON 3

AULA 2

Consumption and Sustainable Behavior

CHAIR: Marco Fattore

1. How to inspire Italy's next generation of Eco-Consumers: An online survey experiment

Lombardi G., Muscillo A., Sestini E., Castellaccio E., Garbin F., Pin P.

2. Feasibility of green hydrogen production from onshore wind farm in Italy (ONLINE)

Khan F., Rapposelli A.

3. Horizontal subsidiarity is not social capital: Theoretical reflections and a proposal of measurement

Angeloni S., Fattore M. , Mazziotta M. , Vittadini G.

16.30-17.00

COFFE BREAK

17.00-18.00

SOL 4

AULA MAGNA

Evaluating inequalities for sustainable development

CHAIR: Ida Camminatiello

1.Sustainable Development and Socio-Economic Inequalities: Insights from Italy's Regional Data

Musella M., Camminatiello I., Lombardo R.

2. Disentangling Skill Mismatch Inequalities: A Comparative Analysis of European Union Member States

Botezat A., Izzo F.

3. Functional Regression on LDQ Functions: Evaluating SDGs Impact on European Quality of Life

Borrata G., Verde R., Balzanella A.

THURSDAY - January, 9 2025

17.00-18.00

SOL 5

AULA 1

Vulnerability and Sustainability in Social Sciences

CO-CHAIR: Gloria Polinesi and Annalina Sarra

1. Mapping the Development of Sustainable Tourism Indicators: a Bibliometric Review

Centoramea D., Sarrab A., Nissia E.

2. On the use of a Pre-Analysis Plan: an Application to an Observational Study in Social Sciences (ONLINE)

Mariani F., Fiorillo F., Ermini B., Mattiozzi S., Salvati L.

3. Inner areas in Lombardy: An analysis of vulnerability dynamics

Bianchi A., Gigliarano C., Maiorino S.

4. Well-being: a BETA-distribution-based approach

Polinesi G., Recchioni M.C., Mariani F., Ciommi M.

17.00-18.00

CON 4

AULA 2

Awareness and Sustainability Indicators

CHAIR: Andrea Marletta

1. The awareness of sustainability for the Italian population: evolution and dynamics using a survey

Angelone R., Mariani P., Marletta A., Zenga M.

2. On the use of aggregative and non-aggregative approaches for composite indicators of financial sustainability in local governments

Ievoli R., Santelli F., Palazzo L.

3. Transition towards a greener future in G-7 countries: Assessing the role of artificial intelligence, municipal waste, green technological innovation, renewable energy transition, and environmental governance

Javed A., Rapposelli A.

THURSDAY - January, 9 2025

18.00-19.00

SOL 6

AULA MAGNA

Sustainable Development and Innovation in Argentina and Spain: Indicators, Finance, and Agriculture

CHAIR: Emilio Picasso

- 1. The Sustainable Development Indicator System of Argentina: A Tool for Environmental Monitoring and Policy Support (ONLINE)**

Primosich J.J.

- 2. An overview of the progress of sustainable finance in Argentina (ONLINE)**

Gonzales M.

- 3.Towards sustainable agriculture: a staged innovation model**

Gogni V., Fusco M., Picasso E.

- 4. Spatial differences in the effects of the information society on the progress of sustainable socioeconomic development goals in European regions (ONLINE)**

Lucendo-Monedero A.L., López-Otero J., Ruiz-Rodríguez F.

18.00-19.00

CON 5

AULA 1

Socioeconomic Disparities and Climate Change

CHAIR: Maria Elena Bottazzi Schenone

- 1. Experiment on the question order effect conducted in Italy, Russia, and with synthetic data generated by AI.**

Tomaselli A., Bartoli B.

- 2. Uncovering Socioeconomic Disparities in European Regions: A Tucker 3 Clustering Approach**

Bottazzi Schenone M., Tomaselli V., Vichi M.

FRIDAY - January, 10 2025

10.00-11.00

PLENARY SESSION

AULA MAGNA

The Application of the Nomogramma di Gandy Methodology in Healthcare and related settings

Prof Rob Gandy (Liverpool Business School, Liverpool John Moores University, UK)

11.00-12.00

SOL 7

AULA MAGNA

Sustainability, equity, and social well-being: A comparative and multidisciplinary perspective

CHAIR: Alfonso Piscitelli

1. Investigating the perceptions of sustainability among young people (ONLINE)

Calculi C., D'Uggento A.M., Pollice A., Ribecco N.

2. A model for reducing skill mismatch inequalities within the European Union

Cammariello I., Botezat A.

3. Sustainability and participant satisfaction in sport events

Rivettia F., Lucadamo A., Rossia C., Splendianic S.

11.00-12.00

CON 6

AULA 1

Air Quality, Energy, and Predictive Models

CHAIR: Pietro Renzi

1. Traffic Restrictions and Air Quality: A Machine Learning Evaluation of Milan's Area C

Adam R., Biancalani F., Metulini R.

2. Improving sustainable energy policies. Challenges and Opportunities of the Space-Based Solar Power

Bianco A.

3. On evaluating the predictive performance of time series copula models for traffic flows

Guerini S.S., Metulini R.

11.00-12.00

CON 7

AULA 2

Economic and Cultural Sustainability

CHAIR: Luca Salvati

1. Museum Quality as a Measure of Economic and Social Sustainability: Evidence from the Italian Museum System

Galluccio C., Giambona F.

2. Bridging Cultural Heritage and Sustainability: Implications for Collectible Design

Codignola F.

3. A Comprehensive Analysis of the Italian School System Using Harmonised Open Data via the SchoolDataIT R Package

Cefalo L., Maranzano P.

FRIDAY - January, 10 2025

12.00-13.00

SOL 8

AULA MAGNA

Circular Economy, Industry Resilience, and Structural Change: European and Italian Perspectives on Sustainability

CHAIR: Mattia Tassinari

1. A methodological proposal for developing a Municipality Indicator of Circular Economy (MICE)

Ghinoi S., Silvestri F., Spigarelli F., Tassinari M.

2. Economic Complexity and Industry Resilience: A study of European regions after the 2008 crisis

Barbieri E., Vieri C., Di Tommaso M.R., Prodi E.

3. Structural change and sustainability: insights on the Italian case

Ardizzone A., Ciacci A., Ivaldi, E. Tassinari M.

12.00-13.00

CON 8

AULA 1

Water Resources, Food Waste and Land-use

CHAIR: Mariangela Zenga

1. Do Digitization and Human Capital Strengthen Regional Resilience? A Dynamic Panel Approach with SGMM and Bayesian Time-Weig

Pacifico A.

2. Land-use and Zipf: a novel contribution to Sustainability Indicators

Salvati L.

3. From the New Perspective at Post Consumption Level: Fighting with Food Waste with a Digital Tool (ONLINE)

Yu M., Principato L., Cicatiello C., Comis C., Secondi L.

12.00-13.00

CON 9

AULA 2

Mobility, Food and Sustainable Tourism

CHAIR: Venera Tomaselli

1. Indicators of internal population mobility in micro territorial areas for innovative analysis of citizen participation

Tomaselli V., Cantone G.G., Sampugnaro R.

2. Quantifying Sustainable Tourism Attitudes: A Novel Composite Indicator for European Union Citizens

Bassi F., Scioni M.

3. Food poverty, health and innovation: the impact of new food frontiers on the social context

Antonicelli M., Gattulli A.

13.00-14.30

LUNCH BREAK

FRIDAY - January, 10 2025

14.30-15.30

PLENARY SESSION

AULA MAGNA

Project PE 9 GRINS

Empowering Sustainability Through Data: the GRINS project

Matteo Cervellati PI Grins project –University of Bologna

Managing Conflicts in Sustainability: New Models of Data Production and Decision Making

Stefano Menghinello - ISTAT

Data-Quality and Data Integration: The AMELIA Platform for measuring Sustainable Development

Giampiero Rosa - ExpriviaS.p.A

15.30-16.30

SOL 9

AULA MAGNA

Health Literacy and Regional Healthcare Dynamics: Socioeconomic Determinants and Mobility Challenges

CHAIR: Alberto Franci

1. Health literacy among university students and their families in the Republic of San Marino. Association with socioeconomic and health status determinants.

Renzi P., Franci A.

2. Rethinking Inter-Regional Patients' Mobility: Cooperation or Competition?

Guarducci G., Spadea L., Nante N.

3. Medical Device Regulations: Shaping Health Outcomes and Public Wellbeing

Camillini R., Melini A., Muccioli C.

4. Models and Approaches for Continuous Quality Improvement: a San Marino's experience

Melini A., Camillini R., Muccioli C.

15.30-16.30

CON 10

AULA 1

Sustainable Development Goals (SDGs) Analysis

CHAIR: Carolina Facioni

1. A novel three-way approach to the analysis of the Sustainable Development Goals in the EU countries (ONLINE)

Bocci L., Vicari D.

2. Land use and sustainability in Southern Italy: A local analysis of socio-economic and institutional drivers (ONLINE)

Bruno E., Castellano R., Punzo G.

3. Smart Cities in Italy: Measuring Smartness for Sustainable Urban Development of Italian Municipalities

De Falco A., Fabbricatore R.

FRIDAY - January, 10 2025

15.30-16.30

CON 11

AULA 2

Health Mobility, tourism sustainability and Quality of life

CHAIR: Angela Maria D'Uggento

1. The socio-demographic impact of medically assisted riprocreation: a territorial analysis of migratory flows.

Tomaselli V., Antonicelli M.

2. Tourism Sustainability Among Crime and Quality of Life

Mariani P., Zenga M.

3. Analysis of health determinants through a composite index of Italian provinces" (ONLINE)

Carbonara M., Tebala D.

4. Climate change and health well-being: analysis of the phenomenon through a forecasting approach

Antonicelli M.

15.30-16.30

SOL 10

AULA 3

Innovative Statistical Approaches: From Sustainable Territories to Educational Progress Modeling

CHAIR: Corrado Crocetta

1. Statistical indicators for the identification of sustainable territories and environmental tourism

Perchinunno P., Massari A., L'Abbate S., Crocetta C., Antonucci L.

2. Growth models for the progress test in Italian dentistry degree programs

Antonucci L., Biscardi G., Crocetta C., Grilli L., Rampichini C.

16.30-17.00

COFFE BREAK

17.00-18.00

SOL 11

AULA MAGNA

Multidimensional Poverty, Equity, and Sustainability: addressing Food and Transport Inequalities

CHAIR: Luca Secondi

1. Addressing Food Poverty in Italy: an application considering price-level differences

Benedetti I., Laureti T., Secondi L.

2. Towards Sustainable Dietary Patterns: Addressing Food Poverty and Insecurity in Italy

Benedetti I., Secondi L., Marchetti S., Principato L.

3. Transport poverty in Italy: exploring affordability through Household Budget Survey

Morosini F.M., Laureti T., Marchetti S., Secondi L.

4. Application of structural equation modelling to public transport accessibility in Italian cities

Gregori F., Secondi L., Laureti T., Morosini F.M.

FRIDAY - January, 10 2025

17.00-18.00

SOL 12

AULA 1

Innovative Education and Learning Strategies for Advancing Bioeconomy and Resilience

CHAIR: N. Drejerska

1. Creative Learning for Advancing Bioeconomy within HEIs' Curricula: Integrating Science and Education

Drejerska N.

2. Enhancing Financial Analysis Education with Creative Learning Tools

Franc-Dąbrowska J.

3. Innovating Education Through the Lens of Nature-Based Solutions and Resilience

Sikorska D.

4. Empowering HEIs: Innovative Approaches to Teaching Entrepreneurship for the Bioeconomy

Zbieć M.

17.00-18.00

CON 12

AULA 2

Well-Being and Educational Inequalities

CHAIR: Manuela Scioni

1. Unveiling the Links Between Economic Perceptions and Psychological Well-Being in University Students

D'Attoma I., Cid C., Tassinari G.

2. Educational Inequalities and School Context: A Causal Analysis of the Effects of School Socioeconomic Status on INVALSI Mathematics test

Sannino P., Fabbricatore R., Davino C.

3. Combining random forest and ARIMA for time series forecast (ONLINE)

Zammarchi G.

18.00-19.00

SOL 13

AULA MAGNA

Wellbeing, Economic Performance, and Climate Finance: Pathways to Sustainability

CHAIR: D. Aversa

1. Measuring Quality of Life as a Pathway to Wellbeing and Sustainability"

Paužuolienė R., Župerkienė E., Fiore M., Šimanskienė L.

2. The determinants of the economic-financial performance of Sicilian agricultural businesses: evidence from a PLS-SEM analysis

Leto G., Spada A., Fiore M., Musolino D.

3. Climate finance, Dual Interest Rate and Climate Change: a Literature Review through Machine Learning Approach

Aversa D., Intrisano C., Fiore M., Baglieri E.



FRIDAY - January, 10 2025

18.00-19.00

CON 13

AULA 1

Exploring Socio-Environmental Dynamics: Gender, Governance, Education, and Sustainability

CHAIR: R. Fabbricatore

1. Women Directors and Environmental Responsibility: The Influence of Gender Diversity and Policy Stringency on Corporate Environmental Performance (ONLINE)

Benedan L., Bonacorsi L., Cerasi V., Galfrascoli P., Pagani L.

2. Corruption, Quality of Life, Well-Being and Sustainable Development (ONLINE)

Sbicca F.

3. Understanding Educational Poverty: A Literature Review of Dimensions, Indicators, and Outcomes

Davino C., Romano R., Gherghi M., Fabbricatore R., Iacono M.

SATURDAY - January, 11 2025

10.00-11.00

PLENARY SESSION

AULA MAGNA

Sustainability's indicators: open issues in composite constructs

Prof Leonardo S. Alaimo

11.00-12.00

SOL 14

AULA 1

Systems of sustainable tourism indicators: a challenge and a support for sustainability future policies

CHAIR: Venera Tomaselli

1. The Role of Tourism Investments in Enhancing Territorial Attractiveness: Evidence from Italian Municipalities

Arena, Bergantino, Buongiorno, Cito, Intini, Scotti

2. Multi-directional benefit of the doubt: A promising method to construct composite indicators for tourism sustainability

Giambona F., Magrini A., Fusco E.

3. Tourism Dynamics in Italy in Light of Climate Change: Forecasting Scenarios Up to 2100

Duong N., Pons E., Guizzardi A.

4. Measuring Tourism Pressure on Italian Destinations: a Vulnerability Analysis at Provincial Level

Bergantino A.S., Buongiorno A., Intini M.

11.00-12.00

SOL 15

AULA 2

The Role of Statistics in Sustainability and Resilience: Social, Environmental, and Urban Perspectives

CHAIR: Paola Perchinunno

1. Multidimensional Statistical Analysis of social sustainability and social welfare

Perchinunno P., Massari A., L'Abbate S., Crocetta C., Mongelli L.

2. Water sustainability: the value of official statistics

Tersigni S., Mongelli L., Ramberti S.

3. Statistical Methods to evaluate Public Administration Resilience in Urban Development

Perchinunno P., Rotondo F.

SATURDAY - January, 11 2025

11.00-12.00

SOL 16

AULA 3

Statistical and Predictive Modeling for Social Science

CHAIR: Andrea Nigri

1. Towards new insights for performance evaluation in public administration: P-AHP and PROMETHEE a comparative analysis
(ONLINE) Fattoruso G.
2. Multinomial Finite Mixture Models for predicting university drop-out
Forti M.
3. Data-driven insights: modeling student satisfaction to prevent drop-out
Cafarelli B., D'Uggento A.M.
4. From Tweets to Insights: Mining Social Media for Environmental Disaster Damage Assessment
Del Gobbo E., Cafarelli B., Ippoliti L., Fontanella L.

12.00-13.00

POSTER

AULA MAGNA

CHAIR: Leonardo S. Alaimo

13.00-14.00

CLOSING

AULA MAGNA