| | | Room Leogrande | Room A | Room De Trizio | Room B | Room C |
|---|---|---|---|---|---|---|
| **17** | 13:30  14:30  REGISTRATION | | | | | |
| | 14:30  15:15 | OPENING | | | | |
| | 15:15  16:15 | PANEL DISCUSSION | SPEC1 | SPEC2 | SPEC3 | SPEC4 |
| | 16:15  16:45  COFFEE BREAK | | | | | |
| | 16:45  17:45 | SOLI1 | SOLI2 | SOLI3 | SOLI4 | SOLI5 |
| | 17:45  18:30 | CONT1 | CONT2 | CONT3 | CONT4 | CONT5 |

## Monday, June 17

### 13:30 - 14:30

### Registration

### 14:30 - 15:15

### Room Leogrande - Opening

### 15:15 - 16:15

### Room Leogrande – Panel discussion

## Statistics and administration

Alberto Zuliani, Sapienza University of Roma

Maurizio Vichi, Sapienza University of Roma

Maria Letizia D'Autilia, Italian National Institute of Statistics

Maria De Benedetto, Roma Tre University

Francesco Lagona, Roma Tre University

## Room A - SPEC1

## Spatio-temporal methods for environmental sustainability

Julia Jansson, Christophe A.N. Biscio, Mehdi Moradi, Ottmar Cronie, Point Process Learning: a cross-validation-based statistical framework for point processes

Marco Mingione, Pierfrancesco Alaimo Di Loro, Temporal Nearest Neighbor Gaussian Process (tNNGP) with flexible covariance for modelling physical activity

FlorianWolf, Alessandro Carminati, Alessandra Guglielmi, Spatio-temporal clustering of PM2.5 in northern Italy using a Bayesian model

Organizer: Nicoletta D'Angelo, University of Palermo

Discussant: Rosaria Ignaccolo, University of Torino

## Room De Trizio - SPEC2

**Statistical approaches for analysing social data on violence against women**

> Fiorenza Deriu, Emilia La Nave, Analysing language for preventing women from gender violence: NLP and Machine Learning techniques to classify Tweet messages

> Tomás Goicoa, Arantxa Urdangarin, Thomas Kneib, María Dolores Ugarte, How to alleviate spatial confounding in multivariate spatial areal models: an application to crimes against women in India

> Silvia Polettini, Sara Martino, Greta Panunzi, A Pogit model for underreported counts of violence against women in Italy

Organizer: Cristina Mollica, Sapienza University of Roma

Discussant: Luca Tardella, Sapienza University of Roma

## Room B - SPEC3

**Job mismatch and effects on the labour market**

> Francesca Adele Giambona, Adham Kahlawi, Skill importance and labour market. An analysis based on Italian OJAs between 2019 and 2022

> Chiara Ardito, Fabio Berton, Lia Pacelli, The effect of the end of hiring incentives on job and employment security

> Giovanni De Luca, Antonella Rocca, Paolo Mazzocchi, Claudio Quintano, Young NEETs and their approach to the labour market in the post-global age

Organizer: Elena Fabrizi, University of Teramo

Discussant: Roberto Leombruni, University of Turin

## Room C - SPEC4

**Harmony in measurement: bridging theory and application in Psychometrics**

> Andrea Bosco, Content-based and data-driven integration. Markov chain models for the inspection of response dynamics in psychological testing

> Antonio Calcagni, Integrating Rasch and compositional modeling for the analysis of social survey data

> Monica Casella, Raffaella Esposito, Maria Luongo, Nicola Milano, Michela Ponticorvo, Roberta Simeoli, Davide Marocco, Artificial Neural Networks in psychometrics research

Organizer: Enrico Ciavolino, University of Salento

Discussant: Mario Angelelli, University of Salento

## 16:15 - 16:45

**Coffee break**

**Room Leogrande - SOLI1**

## Statistical methods for complex systems in Finance

Raffaele Mattera, Javier Sánchez García, Measuring tail risk connectedness with spatial methods

Laura Molero González, Antonio Jesús García Amate, Juan Evangelista Trinidad Segovia, Miguel Ángel Sánchez Granero, Testing the impact of oil prices on the transport economic sector: evidence from random matrix theory

Domenico Santoro, Luca Grilli, Giacinto Angelo Sgarro, Francesco Colasanto, Giovanni Villani, MCMC approach for stock price forecasting using an Italian-BERT model

Monica W. Koczar, Francisco Jareño, Ana Escribano, Transmission of shocks between crude oil prices, sector indices, and renewable and conventional energy indices

Organizer: Roy Cerqueti, Sapienza University of Roma

Chair: Roy Cerqueti, Sapienza University of Roma

**Room A - SOLI2**

## Innovations in spatial-temporal modeling and analysis

Nicoletta D'Angelo, Alessandro Albano, Andrea Gilardi, Giada Adelfio, Spatio-temporal modelling of fires in Sicily

Rosaria Ignaccolo, Nicola Pronello, Alex Cucco, Luigi Ippoliti, Vito Frontuto, Natalia Golini, Spatial varying graphical models for water pollutants

Francesco Lagona, Marco Mingione, Hidden semi-Markov models with copula-based emission distributions for toroidal time-series

Gianluca Mastrantonio, Giovanna Jona Lasinio, Petra Oswine Pammer, Giulia Pedrazzi, Daniela Silvia Pace, Maria Silvia Labriola, Clustering dolphin signature whistles with Dirichlet process mixtures

Organizer: Laura M. Sangalli, Polytechnic of Milano

Chair: Ilaria Prosdocimi, University of Venice

**Room De Trizio - SOLI3**

## Untangling gender imbalance: statistical perspectives

Clelia di Serio, Paolo Ferrari, Diagnosis, treatment, and prevention of disease: gender or sex sensitive? Statistical considerations

Flaminia Musella, Lorenzo Giammei, Paola Vicard, Addressing the gender pay gap: an application based on Object-Oriented Bayesian Networks to rethink gender composite indicators

Federica Nicolussi, Chiara Masci, Stratified Multilevel Graphical Models: a gender perspective in education

Claudia Tarantola, Barbara Bedowska-Sójka, Codruta Mare, Alessia Paccagnini, Belma Öztürkkal, Galena Pisoni, Albulena Shala, Rezarta Perri, Hanna Kristín, Investigating gender gap in editorial boards of Finance journals: a social network perspective

Organizer: Francesco Dotto, Roma Tre University

Chair: Sabrina Giordano, University of Calabria

## Room B - SOLI4

### Methods and models for transport and mobility analyses

Pietro Amenta, Antonio Lucadamo, Aggregating judgments in non negotiable group decisions with external information in transport systems

Réemi Coulaud, Modeling train passenger movements for onboard zone-based load

Selene Perazzini, Rodolfo Metulini, Exploring urban mobility patterns in Lombardia through advanced analysis of mobile phone data

Amalia Vanacore, Armando Ciardiello, Improving aircraft passenger (dis-)comfort prediction via time series analysis of seat pressure data

Organizer: Antonello D'Ambra, University of Campania

Chair: Antonello D'Ambra, University of Campania

## Room C - SOLI5

### Advances in Bayesian mixture modelling

Francesco Barile, Simón Lunagómez, Bernardo Nipoti, Clustering multiple networks data with an application to the EU food trade market

Antonio Canale, Bayesian nonparametrics mixtures for principal stratification

Beatrice Franzolini, How to leverage Bayesian mixtures for dynamic clustering and classification

Clara Grazian, An application of the spatio-temporal stick-breaking process

Organizer: Alessandra Guglielmi, Polytechnic of Milano

Chair: Alessandra Guglielmi, Polytechnic of Milano

## 17:45 - 18:30

## Room Leogrande - CONT1

### Applied Statistics - business and management

Elena Barzizza, Nicolò Biasetton, Luigi Salmaso, ChatGPT and conversational AI in customer satisfaction: a preliminary literature review

Vincenzo Candila, Oguzhan Cepni, Giampiero M. Gallo, Rangan Gupta, Local and global economic policy uncertainty influence on US stock market volatility

Francesco Dotto, Francesco Giuli, Margherita Scarlato, Francesco Bloise, Quantile treatment effect and GBM: an approach based on propensity score

Giulio Grossi, Emilia Rocco, On the use of simulations in the construction of composite indexes

Marta Pittavino, Giedre Lideikyte-Huber, Forecasting Geneva's donors and their charitable deductions

Discussant: Andrea Marletta, Bicocca University of Milano

## Room A - CONT2

### Challenges and strategies for complex environmental data

Crescenza Calculli, Diego Battagliese, Porzia Maiorano, Angela Carluccio, Gianfranco D'Onghia, A modeling approach to investigate species-environment relationship in coral areas using in-situ observations

Gioia Di Credico, A Markov-switching model for studying extreme temperatures in Friuli Venezia Giulia, Italy

Marco Francesco De Sanctis, Ilenia Di Battista, Eleonora Arnone, Cristian Castiglione, Mauro Bernardi, Alessandro Palummo, Laura Sangalli, Penalised spatial quantile regression: application to air quality data

Andrea Gilardi, Francesca Ieva, Statistical methods for evaluating the environmental sustainability of urban infrastructures

Paolo Onorati, Antonio Canale, A semi-parametric spatial-temporal dynamics for zero inflated Weibull distributions with application to extreme rainfall events

Discussant: Giada Adelfio, University of Palermo

## Room De Trizio - CONT3

### Family issues and childcare

Angela Andreella, Gaia Bertarelli, Federico Caldura, Stefano Campostrini, A two-step approach to analyze the inclusivity distribution in childcare services in Italy

Pietro Belloni, Federica Pizzolato, An age-adjusted disproportionality measure for pediatric pharmacovigilance

Elisa Benedetti, Gabriele Lombardi, Rodolfo Cotichini, Sonia Cerrai, Marco Scalese, Sabrina Molinaro, Country prevalence and problematic gambling among European adolescents

Sara Tafuro, War and the military service in post-communist bloc: which impact on marriage and divorce?

Maria Veronica Dorgali, Raffaele Guetto, Valentina Tocchioni, Alice Dominici, Daniele Vignoli, Non-intact families and children's vaccination coverage: evidence from Italy

Discussant: Giancarlo Ragozzini, Federico II University of Napoli

## Room B - CONT4

### Household issues and inequality

Alfonso Carfora, Scandurra Giuseppe, The multifaced challenge to tackle energy poverty: outlook scenarios for EU countries

Elena Dalla Chiara, Marcello D'Orazio, Federico Perali, Is total expenditure a valid proxy for income in statistical matching? A counterfactual experiment

Antonino Di Pino Incognito, Inequality in household consumption: A counterfactual analysis model for 'left-behind' subjects

Alessandro Feraldi, Christian Dudel, Examining socioeconomic inequalities in healthy working life expectancy and the association with smoking behaviour

Alessandro Gallo, Daniele Vignoli, Housing insecurity and first births in Italy

Discussant: Angela Paparusso, National Research Council

## Room C - CONT5

### Advances in Bayesian theory

Filippo Ascolani, Matteo Ruggiero, Stefano Damato, Uncertainty reduction in a class of dependent Dirichlet processes

Filippo Ascolani, Ylenia Francesca Buttigliero, Matteo Ruggiero, Non-informative priors in Wright-Fisher smoothing

Stefano Rizzelli, Oracle priors in Bayesian inference: a frequentist view

Federica Stolf, Dependent infinite latent feature models for tree occurrence data

Daniele Tancini, Riccardo Rastelli, Francesco Bartolucci, Bayesian inference for discrete spatio-temporal hidden Markov models

Discussant: Catia Scricciolo, University of Verona