



UNIVERSITÀ DI PISA



Sant'Anna
Scuola Universitaria Superiore Pisa



Consiglio Nazionale delle Ricerche



Università degli Studi
di Cagliari

Programme

SIS 2021



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Monday, June 21	
08:45 - 09:00	<p>Opening and welcome</p> <p><i>Corrado Crocetta</i>, President of SIS</p> <p><i>Carlo Petronio</i>, Pro-Rector of University of Pisa</p> <p><i>Luca Spataro</i>, Head of Department of Economics and Management of University of Pisa,</p> <p><i>Francesco Mola</i>, Rector of University of Cagliari</p>
09:00 - 10:00	<p>Plenary session 1</p> <p>Chair: <i>Luigi Biggeri</i></p> <p><i>Raymond Chambers</i>: Nudging a Pseudo-Science Towards a Science - The Role of Statistics in a Rainfall Enhancement Trial in Oman</p>
10:00 - 10:15	Break
10:15 - 11:45	Parallel Specialized Sessions 1
	<p>Statistics for Finance: high frequency data, large dimension and network (SPE.1). Chair: <i>Marco Bee</i> - Discussant: <i>Giovanni De Luca</i></p> <p>The Italian debt not-so-flash crash. <i>Maria Flora and Roberto Reno'</i></p> <p>COVID-19 spreading in financial networks: A semiparametric matrix regression model. <i>Monica Billio</i></p> <p>Peaks, Gaps, and Time Reversibility of Economic Time Series. <i>Tommaso Proietti</i></p>
	<p>Integration of survey with alternative sources of data (SPE.2). Chair: <i>Annamaria Bianchi</i> - Discussant: <i>Paolo Righi</i></p> <p>A parametric empirical likelihood approach to data matching under nonignorable sampling and nonresponse. <i>Daniela Marella and Danny Pfeffermann</i></p> <p>Survey data integration for regression analysis using model calibration. <i>Jae-kwang Kim and Hang J. Kim</i></p> <p>Latent Mixed Markov Models for the Production of Population Census Data on Employment. <i>Danila Filippini, Ugo Guarnera and Roberta Varriale</i></p>
	<p>Advances in Preference and Ordinal Data: Theoretical Improvements and Applications (SPE.3). Chair: <i>Claudio Conversano</i> - Discussant: <i>Antonio D'Ambrosio</i></p> <p>Boosting for ranking data: an extension to item weighting. <i>Alessandro Albano, Mariangela Sciandra and Antonella Plaia</i></p> <p>An Extended Bradley-Terry Model For The Analysis Of Financial Data. <i>Alessio Baldassarre, Elise Dusseldorp and Mark De Rooij</i></p> <p>Lower-dimensional Bayes Mallows model: a short methodological introduction. <i>Emilie Eliseussen Ødegaard and Valeria Vitelli</i></p>
11:45 – 12:00	Break
12:00 – 13:15	Parallel Contributed Sessions 1
	<p>Prior distribution for Bayesian analysis (CON.1). Chair: <i>Luca Tardella</i></p> <p>On the dependence structure in Bayesian nonparametric priors. <i>Filippo Ascolani, Beatrice Franzolini, Antonio Lijoi and Igor Prünster</i></p>

	<p>Anisotropic determinantal point processes and their application in Bayesian mixtures. <i>Lorenzo Ghilotti, Mario Beraha and Alessandra Guglielmi</i></p> <p>Bayesian Screening of Covariates in Linear Regression Models Using Correlation Thresholds. <i>Ioannis Ntzoufras and Roberta Paroli</i></p> <p>Prior specification in smooth interaction models. <i>Maria Franco Villoria, Massimo Ventrucci and Haavard Rue</i></p>
	<p>Advances in statistical methods and inference (CON.2). Chair: <i>Marcella Niglio</i></p> <p>Estimation of Dirichlet Distribution Parameters with Modified Score Functions. <i>Vincenzo Gioia and Euloge Clovis Kenne Pagui</i></p> <p>Confidence distributions for predictive tail probabilities. <i>Giovanni Fonseca, Federica Giummolè and Paolo Vidoni</i></p> <p>Impact of sample size on stochastic ordering tests: a simulation study. <i>Rosa Arboretti, Riccardo Ceccato, Luca Pegoraro and Luigi Salmaso</i></p> <p>On testing the significance of a mode. <i>Federico Ferraccioli and Giovanna Menardi</i></p> <p>Hommel BH: an adaptive Benjamini-Hochberg procedure using Hommel's estimator for the number of true hypotheses. <i>Chiara G. Magnani and Aldo Solari</i></p>
	<p>Advances in clinical trials (CON.3). Chair: <i>Fabio Divino</i></p> <p>Quantitative depth-based [18F] FMCH-avid lesion profiling in prostate cancer treatment. <i>Lara Cavinato, Alessandra Ragni, Francesca Ieva, Martina Sollini, Francesco Bartoli and Paola A. Erba</i></p> <p>Modelling longitudinal latent toxicity profiles evolution in osteosarcoma patients. <i>Marta Spreafico, Francesca Ieva and Marta Fiocco</i></p> <p>Information borrowing in phase II basket trials: a comparison of different designs. <i>Marco Novelli</i></p> <p>Q-learning Estimation Techniques for Dynamic Treatment Regime. <i>Simone Bogni, Debora Slanzi and Matteo Borrotti</i></p> <p>Sample Size Computation for Competing Risks Survival Data in GS-Design. <i>Mohammad Anamul Haque and Giuliana Cortese</i></p>
	<p>Demographic analysis (CON.4). Chair: <i>Raffaele Guetto</i></p> <p>Life expectancy in the districts of Taranto. <i>Stefano Cervellera, Carlo Cusatelli and Massimiliano Giacalone</i></p> <p>Family size and Human Capital in Italy: a micro-territorial analysis. <i>Gabriele Ruiu, Marco Breschi and Alessio Fornasin</i></p> <p>Estimate age-specific fertility rates from summary demographic measures. An Indirect Model Levering on Deep Neural Network. <i>Andrea Nigri</i></p> <p>Patterns in the relation between causes of death and gross domestic product. <i>Andrea Nigri and Federico Crescenzi</i></p> <p>Analysing contributions of ages and causes of death to gender gap in life expectancy using functional data analysis. <i>Alessandro Feraldi, Virginia Zarulli, Stefano Mazzuco and Cristina Giudici</i></p>
	<p>Functional data analysis (CON.5). Chair: <i>Alessio Pollice</i></p> <p>Remote Analysis of Chapas Stops in Maputo from GPS data: a Functional Data Analysis Approach. <i>Agostino Torti, Davide Ranieri and Simone Vantini</i></p> <p>A Conformal approach for functional data prediction. <i>Jacopo Diqigiovanni, Matteo Fontana and Simone Vantini</i></p>

	<p>Block testing in covariance and precision matrices for functional data analysis. <i>Marie Morvan, Alessia Pini, Madison Giacofci and Valerie Monbet</i></p> <p>Locally sparse functional regression with an application to mortality data. <i>Mauro Bernardi, Antonio Canale, Marco Stefanucci</i></p> <p>Supervised classification of ECG curves via a combined use of functional data analysis and random forest to identify patients affected by heart disease. <i>Fabrizio Maturo and Rosanna Verde</i></p>
	<p>Advances in statistical models (CON.6). Chair: <i>Maria Giovanna Ranalli</i></p> <p>Specification Curve Analysis: Visualising the risk of model misspecification in COVID-19 data. <i>Venera Tomaselli, Giulio Giacomo Cantone and Vincenzo Miracula</i></p> <p>Semiparametric Variational Inference for Bayesian Quantile Regression. <i>Cristian Castiglione and Mauro Bernardi</i></p> <p>Searching for a source of difference in undirected graphical models for count data – an empirical study. <i>Federico Agostinis, Monica Chiogna, Vera Djordjilović, Luna Pianesi and Chiara Romualdi</i></p> <p>Snipped robust inference in mixed linear models. <i>Antonio Lucadamo, Luca Greco, Pietro Amenta and Anna Crisci</i></p> <p>Machine Learning and Credit Risk - Empirical Evidence from SMEs. <i>Alessandro Bitetto</i></p>
13:15 – 14:00	Break
14:00 – 15:15	Parallel Solicited Sessions 1
	<p>Light methods for hard problems (SOL.1). Chair: <i>Emanuele Aliverti</i></p> <p>Fast Divide-and-Conquer Strategies to Solve Spatial Big Data Problems. <i>Michele Peruzzi</i></p> <p>Application of hierarchical matrices in spatial statistics. <i>Anastasiia Gorshechnikova and Carlo Gaetan</i></p> <p>Easy incorporation of prior information into frequentist procedures. <i>Peter Hoff</i></p> <p>The statistical design and results of REMAP-CAP. <i>Lindsay R. Berry</i></p>
	<p>Evaluation of undercoverage for censuses and administrative data (SOL.2). Chair: <i>Orietta Luzi</i></p> <p>Spatially balanced indirect sampling to estimate the coverage of the agricultural census. <i>Federica Piersimoni, Francesco Pantalone and Roberto Benedetti</i></p> <p>Next Census in Israel: Strategy, Estimation and Evaluation. <i>Danny Pfeffermann</i></p> <p>Administrative data for population counts estimations in Italian Population Census. <i>Antonella Bernardini, Angela Chieppa, Nicoletta Cibella and Fabrizio Solari</i></p> <p>LFS non response indicators for population register overcoverage estimation. <i>Loredana Di Consiglio and Stefano Falorsi</i></p>
	<p>Compositions in the Data Science Era (SOL.3). Chair: <i>Gianna Monti</i></p> <p>Can we Ignore the Compositional Nature of Compositional Data by using Deep Learning Approaches? <i>Matthias Templ</i></p> <p>Principal balances for three-way compositions. <i>Violetta Simonacci</i></p> <p>Robust Regression for Compositional Data and its Application in the Context of SDG. <i>Valentin Todorov and Fatemah Alqallaf</i></p> <p>Assessing Relationships in Relative Data Using Symmetric Pivot Coordinates. <i>Karel Hron and Peter Filzmoser</i></p>

	<p>New perspectives on multidimensional child poverty (SOL.4). Chair: <i>Antonella D'Agostino</i></p> <p>Estimating uncertainty for child poverty indicators: The Case of Mediterranean Countries. <i>Ilaria Benedetti, Federico Crescenzi and Riccardo De Santis</i></p> <p>Child poverty and government social spending in the European Union during the economic crisis. <i>Angeles Sánchez and María Navarro</i></p> <p>The Children's Worlds Study: New perspectives on children's deprivation research. <i>Caterina Giusti and Antoanneta Potsi</i></p> <p>The impact of different definition of "households with children" on deprivation measures: the case of Italy. <i>Laura Neri and Francesca Gagliardi</i></p>
15:15 – 16:15	<p>Premio a Giovani Studiosi e Studiose per Contributi alle Discipline Statistiche. Chair: <i>Matilde Bini</i></p> <p>Interventions of <i>Alan Agresti</i> and <i>Corrado Crocetta</i></p>

Tuesday, June 22	
09:00 - 10:30	<p>Parallel Specialized Sessions 2</p> <p>Advances in environmental statistics (SPE.4). Chair: <i>Francesco Finazzi</i> - Discussant: <i>Marian Scott</i></p> <p>Bayesian small area models for investigating spatial heterogeneity and factors affecting the amount of solid waste in Italy. <i>Crescenza Calcutti and Serena Arima</i></p> <p>A spatial regression model for predicting abundance of lichen functional groups. <i>Pasquale Valentini, Francesca Fortuna, Tonio Di Battista and Paolo Giordani</i></p> <p>Stochastic Generators with Global Spatio-Temporal Locally Diffusive SPDE Models. <i>Stefano Castruccio</i></p>
	<p>Media, social media and demographic behaviours (SPE.5). Chair: <i>Letizia Mencarini</i> - Discussant: <i>Bruno Arpino</i></p> <p>Monitoring the Numbers of European Migrants in the United Kingdom using Facebook Data. <i>Francesco Rampazzo, Jakub Bijak, Agnese Vitali, Ingmar Weber and Emilio Zagheni</i></p> <p>Narratives of the Future and Fertility: The Role of the Media Coverage of the Economy. <i>Maria Francesca Morabito</i></p> <p>Online Footprints of Family Change: A Study Based on Twitter. <i>Nicolò Cavalli</i></p>
	<p>Business system: innovation, competitiveness, productivity and internationalization (SPE.6). Chair: <i>Lucio Masserini</i> - Discussant: <i>Margherita Velucchi</i></p> <p>An analysis of the dynamics of the competitiveness for some European Countries. <i>Andrea Marletta, Mauro Mussini and Mariangela Zenga</i></p> <p>National innovation system and economic performance in EU. An analysis using composite indicators. <i>Alessandro Zeli</i></p> <p>The role of global value chains in the pandemic impact on Italian firms. <i>Giorgia Giovannetti, Michele Mancini, Enrico Marvasi and Giulio Vannelli</i></p>
	<p>New developments in ensemble methods for classification (SPE.7). Chair: <i>Antonio Canale</i> - Discussant: <i>Rosanna Verde</i></p> <p>An alternative approach for nowcasting economic activity during COVID-19 times. <i>Alessandro Spelta and Paolo Pagnottoni</i></p> <p>Assessing the number of groups in consensus clustering by pivotal methods. <i>Roberta Pappadà, Francesco Pauli and Nicola Torelli</i></p> <p>Clustering of data recorded by Distributed Acoustic Sensors to identify vehicle passage and typology. <i>Antonio Balzanella and Stefania Nacchia</i></p>
10:30 – 10:45	Break
10:45 – 12:00	<p>Parallel Contributed Sessions 2</p> <p>New perspectives in clinical trials (CON.7). Chair: <i>Piero Manfredi</i></p> <p>Improved maximum likelihood estimator in relative risk regression. <i>Euloge C. Kenne Pagui, Francesco Pozza and Alessandra Salvan</i></p> <p>Development and validation of a clinical risk score to predict the risk of SARS-CoV-2 infection. <i>Laura Savaré, Valentina Orlando and Giovanni Corrao</i></p> <p>Functional representation of potassium trajectories for dynamic monitoring of Heart Failure patients. <i>Caterina Gregorio, Giulia Barbatì and Francesca Ieva</i></p>

	<p>Effect of lung transplantation on the survival of patients with cystic fibrosis: IMaCh contribution to registry data. <i>Cristina Giudici, Nicolas Brouard and Gil Bellis</i></p> <p>Categories and Clusters to investigate Similarities in Diabetic Kidney Disease Patients. <i>Veronica Distefano, Maria Mannone, Claudio Silvestri and Irene Poli</i></p>
	<p>New developments in composite indicators applications (CON.8). Chair: <i>Isabella Sulis</i></p> <p>Building composite indicators in the functional domain: a suggestion for an evolutionary HDI. <i>Francesca Fortuna, Alessia Naccarato and Silvia Terzi</i></p> <p>Small Area Estimation of Inequality Measures via Simplex Regression. <i>Silvia De Nicolò, Maria Rosaria Ferrante and Silvia Pacei</i></p> <p>Relational Well-Being and Poverty in Italy. <i>Elena Dalla Chiara and Federico Perali</i></p> <p>A composite indicator to assess sustainability of agriculture in European Union countries. <i>Alessandro Magrini and Francesca Giambona</i></p> <p>Interval-Based Composite Indicators with a Triplex Representation: A Measure of the Potential Demand for the "Ristori" Decree in Italy. <i>Carlo Drago</i></p>
	<p>New developments in GLM theory and applications (CON.9). Chair: <i>Mariagiulia Matteucci</i></p> <p>Variational inference for the smoothing distribution in dynamic probit models. <i>Augusto Fasano and Giovanni Rebaudo</i></p> <p>Interpretability and interaction learning for logistic regression models. <i>Nicola Rares Franco, Michela Carlotta Massi, Francesca Ieva and Anna Maria Paganoni</i></p> <p>Entropy estimation for binary data with dependence structures. <i>Linda Altieri and Daniela Cocchi</i></p> <p>A Comparison of Some Estimation Methods for the Three-Parameter Logistic Model. <i>Michela Battauz and Ruggero Bellio</i></p> <p>A statistical model to identify the price determinations: the case of Airbnb. <i>Giulia Contu, Luca Frigau, Gian Paolo Zammarchi and Francesco Mola</i></p>
	<p>Surveillance methods and statistical models in the Covid-19 crisis (CON.10). Chair: <i>Silvia Loriga</i></p> <p>The Italian Social Mood on Economy Index during the Covid-19 Crisis. <i>Alessandra Righi and Diego Zardetto</i></p> <p>Modeling the first wave of the COVID-19 pandemic in the Lombardy region, Italy, by using the daily number of swabs. <i>Claudia Furlan and Cinzia Mortarino</i></p> <p>Analysing the Covid-19 pandemic in Italy with the SIPRO model. <i>Martina Amongero, Enrico Bibbona and Gianluca Mastrantonio</i></p> <p>Intentions of union formation and dissolution during the COVID-19 pandemic. <i>Bruno Arpino and Daniela Bellani</i></p> <p>Local inequalities of the COVID-19 crisis. <i>Augusto Cerqua and Marco Letta</i></p>
	<p>New challenges in clustering and classification techniques (CON.11). Chair: <i>Leonardo Egidi</i></p> <p>A Dynamic Stochastic Block Model with infinite communities. <i>Roberto Casarin and Ovielt Baltodano López</i></p> <p>Cross-Subject EEG Channel Selection for the Detection of Predisposition to Alcoholism. <i>Michela Carlotta Massi and Francesca Ieva</i></p> <p>Some Issues on the Parameter Selection in the Spectral Methods for Clustering. <i>Cinzia Di Nuzzo and Salvatore Ingrassia</i></p>

	The link-match tale: new microdata from unit level association. <i>Riccardo D'Alberto, Meri Raggi and Daniela Cocchi</i>
12:00 – 13:00	Plenary session 2 Chair: <i>Maurizio Vichi</i> <i>Anthony Atkinson</i> : Robust Statistics, the Shroud of Turin and Science
13:00 – 14:00	Break
14:00 – 15:15	Parallel Solicited Sessions 2
	Changes in the life course and social inequality (SOL.5). Chair: <i>Nazareno Panichella</i> Heterogeneous Income Dynamics: Unemployment Consequences in Germany and the US. <i>Raffaele Grotti</i> In-work poverty in Germany and in the US: The role of parity progression. <i>Emanuela Struffolino and Zachary Van Winkle Z.</i> Parenthood, education and social stratification. An analysis of female occupational careers in Italy. <i>Gabriele Ballarino and Stefano Cantalini</i> Does schooling decrease social inequality in early educational achievement? <i>Giampiero Passaretta and Jan Skopek</i>
	Hierarchical forecasting and forecast combination (SOL.6). Chair: <i>Luisa Bisaglia</i> Density calibration with consistent scoring functions. <i>Roberto Casarin and Francesco Ravazzolo</i> Forecasting combination of hierarchical time series: a novel method with an application to CoVid-19. <i>Livio Fenga</i> Dimensionality reduction in forecasting with temporal hierarchies. <i>Peter Nystrup</i> Non-negative cross-temporal forecast reconciliation. An application to the Australian domestic tourism flows. <i>Tommaso Di Fonzo and Daniele Girolimetto</i>
	Learning analytics: methods and applications (SOL.7). Chair: <i>Stefania Mignani</i> Open-Source Automated Test Assembly: the Challenges of Large-Sized Models. <i>Giada Spaccapanico Proietti</i> How Much Tutoring Activities May Improve Academic Careers of At-Risk Students? An Evaluation Study. <i>Marta Cannistra, Tommaso Agasisti, Anna Maria Paganoni and Chiara Masci</i> Composite-based Segmentation Trees to Model Learners' performance. <i>Cristina Davino and Giuseppe Lamberti</i> Test-taking Effort in INVALSI Assessments. <i>Chiara Sacco</i>
	Statistical analysis of energy data (SOL.8). Chair: <i>Luigi Grossi</i> Machine learning models for electricity price forecasting. <i>Silvia Golia, Luigi Grossi and Matteo Pelagatti</i> The impact of hydroelectric storage in the Italian power market. <i>Filippo Beltrami</i> Jumps and cojumps in electricity price forecasting. <i>Peru Muniain, Aitor Ciarreta and Ainhoa Zarraga</i> Tracking GDP in real-time using electricity market data: insights from the first wave of COVID-19 across Europe. <i>Carlo Fezzi and Valeria Fanghella</i>
15:15 – 15:30	Break

15:30 – 16:45	Parallel Contributed Sessions 3
	<p>Bayesian non parametrics (CON.12). Chair: <i>Luca Tardella</i></p> <p>Bayesian nonparametric prediction: from species to features. <i>Lorenzo Masoero, Federico Camerlenghi, Stefano Favaro and Tamara Broderick</i></p> <p>A framework for filtering in hidden Markov models with normalized random measures. <i>Filippo Ascolani, Antonio Lijoi, Igor Prünster and Matteo Ruggiero</i></p> <p>On the convex combination of a Dirichlet process with a diffuse probability measure. <i>Federico Camerlenghi, Riccardo Corradin and Andrea Ongaro</i></p> <p>Detection of neural activity in calcium imaging data via Bayesian mixture models. <i>Laura D'Angelo, Antonio Canale, Zhaoxia Yu and Michele Guindani</i></p>
	<p>Clustering for complex data (CON.13). Chair: <i>Domenico Vistocco</i></p> <p>Clustering categorical data via Hamming distance. <i>Edoardo Filippi-Mazzola, Raffaele Argiento and Lucia Paci</i></p> <p>Penalized model-based clustering for three-way data structures. <i>Andrea Cappozzo, Alessandro Casa, and Michael Fop</i></p> <p>Does Milan have a smart mobility? A clustering analysis approach. <i>Nicola Cornali, Matteo Seminati, Paolo Maranzano and Paola M. Chiodini</i></p> <p>A Fuzzy clustering approach for textual data. <i>Irene Cozzolino, Maria Brigida Ferraro and Peter Winker</i></p> <p>Valid Double-Dipping via Permutation-Based Closed Testing. <i>Anna Vesely, Livio Finos, Jelle J. Goeman and Angela Andreella</i></p>
	<p>Some recent developments in compositional data Analysis (CON.14). Chair: <i>Violetta Simonacci</i></p> <p>A Robust Approach to Microbiome-Based Classification Problems. <i>Gianna Serafina Monti and Peter Filzmoser</i></p> <p>What is a convex set in compositional data analysis? <i>Jordi Saperas i Riera and Josep Antoni Martín Fernández</i></p> <p>Compositional Analysis on the Functional Distribution of Extended Income. <i>Elena Dalla Chiara and Federico Perali</i></p> <p>Evaluating seasonal-induced changes in river chemistry using Principal Balances. <i>Caterina Gozzi and Antonella Bucciatti</i></p> <p>Compositional Data Techniques for the Analysis of the Ragweed Allergy. <i>Gianna S. Monti, Maira Bonini, Valentina Ceriotti, Matteo Pelagatti and Claudio M. Ortolani</i></p>
	<p>Data Science for unstructured data (CON.15). Chair: <i>Paola Cerchiello</i></p> <p>Identification and modeling of stop activities at the destination from GPS tracking data. <i>Nicoletta D'Angelo, Giada Adelfio, Antonino Abbruzzo and Mauro Ferrante</i></p> <p>A generalization of derangement. <i>Maurizio Maravalle and Ciro Marziliano</i></p> <p>Analysis of clickstream data with mixture hidden markov models. <i>Furio Urso, Antonino Abbruzzo and Maria Francesca Cracolici</i></p> <p>Using Google Scholar to measure the credibility of preprints in the COVID-19 Open Research Dataset (CORD-19). <i>Manlio Migliorati, Maurizio Carpita and Eugenio Brentari</i></p> <p>Mobile phone use while driving: a Structural Equation Model to analyze the Behavior behind the wheel. <i>Carlo Cavicchia and Pasquale Sarnacchiaro</i></p>

New developments in social statistics analysis (CON.16). Chair: *Mariano Porcu*

Data-based Evaluation of Political Agents Against Goals Scheduling. *Giulio D'Epifanio*

Local heterogeneities in population growth and decline. A spatial analysis for Italian municipalities. *Federico Benassi, Annalisa Busetta, Gerardo Gallo and Manuela Stranges*

The assessment of environmental and income inequalities. *Michele Costa*

Household financial fragility across Europe. *Marianna Brunetti, Elena Giarda and Costanza Torricelli*

Refugees' perception of their new life in Germany. *Daria Mendola and Anna Maria Parroco*

Wednesday, June 23	
09:00 - 10:00	<p>Plenary session 3</p> <p>Chair: <i>Daniela Cocchi</i></p> <p><i>Elisabetta Barbi</i>: Demographic perspectives on human survival and longevity</p>
10:00 - 10:15	Break
10:15 - 11:45	<p>Parallel Specialized Sessions 3</p> <p>Challenges for observational studies in modern biomedicine (SIS - SIB) (SPE.8). Chair: <i>Paola Vicard</i> - Discussant: <i>Marco Bonetti</i></p> <p>Data integration: a Statistical view. <i>Pier Luigi Conti</i></p> <p>Exploring patients' profile from COVID-19 case series data: beyond standard statistical approaches. <i>Chiara Brombin, Federica Cugnata, Pietro E. Cippà, Alessandro Ceschi, Paolo Ferrari and Clelia di Serio</i></p> <p>On the statistics for some pivotal anti-COVID-19 vaccine trials. <i>Mauro Gasparini</i></p> <p>Semi-parametric and non-parametric latent class analysis (SPE.9). Chair: <i>Cristina Tortora</i> - Discussant: <i>Stefania Mignani</i></p> <p>Stepwise Estimation of Multilevel Latent Class Models. <i>Zsuzsa Bakk, Roberto di Mari, Jennifer Oser and Jouni Kuha</i></p> <p>Distance learning, stress and career-related anxiety during the Covid-19 pandemic: a students perspective analysis. <i>Alfonso Iodice D'Enza, Maria Iannario and Rosaria Romano</i></p> <p>A Tempered Expectation-Maximization Algorithm for Latent Class Model Estimation. <i>Luca Brusa, Francesco Bartolucci and Fulvia Pennoni</i></p> <p>Advances in ecological modelling (SPE.10). Chair: <i>Giovanna Jona Lasinio</i> - Discussant: <i>Gianfranco Lovison</i></p> <p>A Bayesian joint model for exploring zero-inflated bivariate marine litter data. <i>Sara Martino, Crescenza Calculli and Porzia Maiorano</i></p> <p>Population size estimation and classification of <i>Tursiops truncatus</i> at the Tiber River estuar. <i>Marco Mingione, Daniela Silvia Pace, Chiara Di Marco, Margherita Silvestri, Pierfrancesco Alaimo Di Loro, Giancarlo Giacomini, Giovanna Jona Lasinio and Giandomenico Ardizzone</i></p> <p>We want you! How ecological studies on marine mammals need to meet targeted statistical methods. <i>Daniela Silvia Pace, Giancarlo Giacomini, Margherita Silvestri and Giandomenico Ardizzone</i></p> <p>A glimpse of new data and methods for analysing a rapidly changing population (SPE.11). Chair: <i>Alessandra Petrucci</i> – Discussant: <i>Roberto Impicciatore</i></p> <p>The diffusion of new family patterns in Italy: An update. <i>Arnstein Aassve, Letizia Mencarini, Elena Pirani and Daniele Vignoli</i></p> <p>Causes of death patterns and life expectancy: looking for warning signals. <i>Stefano Mazzucco, Emanuele Aliverti, Daniele Durante and Stefano Campostrini</i></p> <p>The big numbers of tertiary education in Italy. <i>Mariano Porcu, Marco Breschi, Giancarlo Ragozini and Giovanni Boscaïno</i></p>
11:45 – 12:00	Break
12:00 – 13:15	Parallel Contributed Sessions 4

	<p>Mixture models (CON.17). Chair: <i>Francesco Laguna</i></p> <p>Alternative parameterizations for regression models with constrained multivariate responses. <i>Roberto Ascari, Agnese Maria Di Brisco, Sonia Migliorati and Andrea Ongaro</i></p> <p>Spatially dependent mixture models with a random number of components. <i>Matteo Gianella, Mario Beraha and Alessandra Guglielmi</i></p> <p>Finite mixtures of regression models for longitudinal data. <i>Marco Alfò and Roberto Rocci</i></p> <p>Mixtures of regressions for size estimation of heterogeneous populations. <i>Gianmarco Caruso</i></p> <p>Finite mixtures of regressions with random covariates using multivariate skewed distributions. <i>Salvatore D. Tomarchio, Michael P.B. Gallagher, Antonio Punzo and Paul D. McNicholas</i></p>
	<p>Social demography (CON.18). Chair: <i>Raffaele Guetto</i></p> <p>Childcare among migrants: a comparison between Italy and France. <i>Eleonora Trappolini, Elisa Barbiano di Belgiojoso, Stefania Maria Lorenza Rimoldi and Laura Terzera</i></p> <p>Employment Uncertainty and Fertility in Italy: The Role of Union Formation. <i>Giammarco Alderotti, Valentina Tocchioni and Alessandra De Rose</i></p> <p>Determinants of union dissolution in Italy: Do children matter? <i>Valentina Tocchioni, Daniele Vignoli, Eleonora Meli and Bruno Arpino</i></p> <p>Working schedules and fathers' time with children: A Sequence Analysis. <i>Annalisa Donno and Maria Letizia Tanturri</i></p> <p>Correlates of the non-use of contraception among female university students in Italy. <i>Annalisa Busetta, Alessandra De Rose and Daniele Vignoli</i></p>
	<p>New applications of regression models (CON.19). Chair: <i>Marco Doretti</i></p> <p>The Shapley-Lorenz decomposition approach to mitigate cyber risks. <i>Paolo Giudici and Emanuela Raffinetti</i></p> <p>A spatially adaptive estimator for the function-on-function linear regression model with application to the Swedish Mortality dataset. <i>Fabio Centofanti, Antonio Lepore, Alessandra Menafoglio, Biagio Palumbo and Simone Vantini</i></p> <p>POSetR: a new computationally efficient R package for partially ordered data. <i>Alberto Arcagni, Alessandro Avellone and Marco Fattore</i></p> <p>Multi Split Conformal Prediction. <i>Aldo Solari and Vera Djordjilović</i></p> <p>Changes in the consumption of fruits and vegetables among university students during master courses: an analysis of data automatically collected from cashier transactions. <i>Valentina Lorenzoni, Giuseppe Turchetti and Lucio Masserini</i></p>
	<p>Statistical applications in education (CON.20). Chair: <i>Mariagiulia Matteucci</i></p> <p>Does self-efficacy influence academic results? A separable-effect mediation analysis. <i>Chiara Di Maria</i></p> <p>Statistics Knowledge assessment: an archetypal analysis approach. <i>Bruno Adabbo, Rosa Fabbriatore, Alfonso Iodice D'Enza and Francesco Palumbo</i></p> <p>Exploring drivers for Italian university students' mobility: first evidence from AlmaLaurea data. <i>Giovanni Boscaino and Vincenzo Giuseppe Genova</i></p> <p>Can Grading Policies influence the competition among Universities of different sizes? <i>Gabriele Lombardi and Antonio Pio Distaso</i></p> <p>The class A journals and the Italian academic research outcomes in Statistical Sciences. <i>Maria Maddalena Barbieri, Francesca Bassi, Antonio Irpino and Rosanna Verde</i></p>

	<p>Statistical methods for finance (CON.21). Chair: <i>Massimiliano Caporin</i></p> <p>Hypotheses testing in mixed–frequency volatility models: a bootstrap approach. <i>Vincenzo Candila and Lea Petrella</i></p> <p>Quantile Regression Forest with mixed frequency Data. <i>Mila Andreani, Vincenzo Candila and Lea Petrella</i></p> <p>Higher order moments in Capital Asset Pricing Model betas. <i>Giuseppe Arbia, Riccardo Bramante and Silvia Facchinetti</i></p> <p>When Does Sentiment Matter in Predicting Cryptocurrency Bubbles? <i>Arianna Agosto and Paolo Pagnottoni</i></p> <p>Estimating correlations among elliptical random variables under heteroskedasticity. <i>Matteo Maria Pelagatti and Giacomo Sbrana</i></p>
13:15 – 14:15	Break
14:15 – 15:30	Parallel Solicited Sessions 3
	<p>Excesses and rare events in complex systems (SOL.9). Chair: <i>Giada Adelfio</i></p> <p>Space-time extreme rainfall simulation under a geostatistical approach. <i>Gianmarco Callegher, Carlo Gaetan, Noemie Le Carrer and Ilaria Prosdocimi</i></p> <p>Threshold Exceedance Probabilities Based on Regularizing Sequences. <i>José Luis Romero and José Miguel Angulo</i></p> <p>Non-crossing parametric quantile functions: an application to extreme temperatures. <i>Gianluca Sottile</i></p>
	<p>Advances in social indicators research and latent variables modelling in social sciences (SOL.10). Chair: <i>Michela Gnaldi</i></p> <p>A composite indicator to measure frailty using administrative healthcare data. <i>Margherita Silan, Rachele Brocco and Giovanna Boccuzzo</i></p> <p>Clusters of contracting authorities over time: an analysis of their behaviour based on procurement red flags. <i>Simone Del Sarto, Paolo Coppola and Matteo Troia</i></p> <p>An Application of Temporal Poset on Human Development Index Data. <i>Leonardo Salvatore Alaimo, Filomena Maggino and Emiliano Seri</i></p> <p>The SDGs System: a longitudinal analysis through PLS-PM. <i>Rosanna Cataldo, Maria Gabriella Grassia and Laura Antonucci</i></p>
	<p>Household surveys for policy analysis (SOL.11). Chair: <i>Giovanni D’Alessio</i></p> <p>Did the policy responses to COVID-19 protect Italian households’ incomes? Evidence from survey and administrative data. <i>Maria Teresa Monteduro, Dalila De Rosa and Chiara Subrizi</i></p> <p>Anti-poverty measures in Italy: a microsimulation analysis. <i>Pasquale Recchia</i></p> <p>Modernizing survey systems during a pandemic. Mobilizing high-frequency phone surveys to understand the impact of COVID-19 in Africa. <i>Philip R Wollburg, Gero Carletto, Talip Kilic, Kevin Robert McGee and Zezza Alberto</i></p> <p>Mind the wealth gap: a new allocation method to match micro and macro statistics for household wealth. <i>Andrea Neri</i></p>
	<p>The impact of Jobs Act on labor and non-labor markets (SIE) (SOL.12). Chair: <i>Alberto Zazzaro</i></p> <p>Firing costs and job loss: The case of the Italian Jobs Act. <i>Claudia Pigini</i></p>

Job protection and mortgage conditions. *Alberto Zazzaro, Tommaso Oliviero, Paolo Emilio Mistrulli and Zeno Rotondi*

Fertility Decisions and Employment Protection: The Unintended Consequences of the Italian Jobs Act. *Roberto Nisticò*

Thursday, June 24	
9:00 – 10:15	Parallel Contributed Sessions 5
	<p>Data Science for complex data (CON.22). Chair: <i>Paola Cerchiello</i></p> <p>Text mining on large corpora using Taltac4: An explorative analysis of the USPTO patents database. <i>Pasquale Pavone, Arianna Martinelli and Federico Tamagni</i></p> <p>Emotion pattern detection on facial videos using functional statistics. <i>Rongjiao Ji, Alessandra Micheletti, Natasa Krklec Jerinkic and Zoranka Desnica</i></p> <p>The spread of contagion on Twitter: identification of communities analysing data from the first wave of the COVID-19 epidemic. <i>Gianni Andreozzi, Salvatore Pirri, Giuseppe Turchetti and Valentina Lorenzoni</i></p> <p>Composition-on-Function Regression Model for the Remote Analysis of Near-Earth Asteroids. <i>Mara S. Bernardi, Matteo Fontana, Alessandra Menafoglio, Alessandro Pisello, Massimiliano Porreca, Diego Perugini and Simone Vantini</i></p> <p>Determinants of football coach dismissal in Italian League Serie A. <i>Francesco Porro, Marialuisa Restaino, Juan Eloy Ruiz-Castro and Mariangela Zenga</i></p>
	<p>Environmental statistics (CON.23). Chair: <i>Fabio Divino</i></p> <p>A Distribution-Free Approach for Detecting Radioxenon Anomalous Concentrations. <i>Michele Scagliarini, Rosanna Gualdi, Giuseppe Ottaviano, Antonietta Rizzo and Franca Padoani</i></p> <p>Ecosud Car, a novel approach for the predictive control of the territory. <i>Giacomo Iula, Massimo Dimo, Saverio Gianluca Crisafulli, Marco Vito Calciano, Vito Santarcangelo and Massimiliano Giacalone</i></p> <p>Effect of ties on the empirical copula methods for weather forecasting. <i>Elisa Perrone, Fabrizio Durante and Irene Schicker</i></p> <p>Spatio-temporal regression with differential penalization for the reconstruction of partially observed signals. <i>Eleonora Arnone and Laura M. Sangalli</i></p> <p>Sea Surface Temperature Effects on the Mediterranean Marine Ecosystem: a Semiparametric Model Approach. <i>Claudio Rubino, Giacomo Milisenda, Antonino Abbruzzo, Giada Adelfio, Mar Bosch-Belmar, Francesco Colloca, Manfredi Di Lorenzo and Vita Gancitano</i></p>
	<p>Novel approaches for Official Statistics (CON.24). Chair: <i>Francesco Pantalone</i></p> <p>Web data collection: profiles of respondents to the Italian Population Census. <i>Elena Grimaccia, Gerardo Gallo, Alessia Naccarato, Novella Cecconi and Alessandro Fratoni</i></p> <p>Trusted Smart Surveys: architectural and methodological challenges at a glance. <i>Mauro Bruno, Francesca Inglese and Giuseppina Ruocco</i></p> <p>On bias correction in small area estimation: An M-quantile approach. <i>Gaia Bertarelli, Francesco Schirripa Spagnolo, Raymond Chambers and David Haziza</i></p> <p>The address component of the Statistical Base Register of Territorial Entities. <i>Davide Fardelli, Enrico Orsini and Andrea Pagano</i></p> <p>A well-being municipal indicator using census data: first results. <i>Massimo Esposito</i></p>
	<p>Social indicators: applications and methods (CON.25). Chair: <i>Luca Secondi</i></p> <p>A logistic regression model for predicting child language performance. <i>Andrea Briglia, Massimo Mucciardi and Giovanni Pirrotta</i></p> <p>Subject-specific measures of interrater agreement for ordinal scales. <i>Giuseppe Bove</i></p>

	<p>A Tucker3 method application on adjusted-PMRs for the study of work-related mortality. <i>Vittoria Carolina Malpassuti, Vittoria La Serra and Stefania Massari</i></p> <p>Two case-mix adjusted indices for nursing home performance evaluation. <i>Giorgio E. Montanari and Marco Doretti</i></p> <p>The ultrametric covariance model for modelling teachers' job satisfaction. <i>Carlo Cavicchia, Maurizio Vichi and Giorgia Zaccaria</i></p>
	<p>Time series methods (CON.26). Chair: <i>Massimiliano Caporin</i></p> <p>Bootstrap-based score test for INAR effect. <i>Riccardo Ievoli and Lucio Palazzo</i></p> <p>Evaluating the performance of a new picking algorithm based on the variance piecewise constant models. <i>Nicoletta D'Angelo, Giada Adelfio, Antonino D'Alessandro and Marcello Chiodi</i></p> <p>Conditional moments based time series cluster analysis. <i>Raffaele Mattera and Germana Scepi</i></p> <p>On the asymptotic mean-squared prediction error for multivariate time series. <i>Gery Andrés Díaz Rubio, Simone Giannerini, and Greta Goracci</i></p> <p>Spherical autoregressive change-point detection with applications. <i>Federica Spoto, Alessia Caponera and Pierpaolo Brutti</i></p>
10:15 – 10:30	Break
10:30 – 12:00	Parallel Specialized session 4
	<p>Causal inference and mediation (SPE.12). Chair: <i>Elena Stanghellini</i> – Discussant: <i>Marco Doretti</i></p> <p>High-dimensional mediation analysis. <i>Rhian Daniel</i></p> <p>Heterogeneous Treatment and Spillover Effects under Clustered Network Interference. <i>Laura Forastiere</i></p> <p>The inclusive synthetic control method. <i>Giovanni Mellace and Roberta Di Stefano</i></p>
	<p>New developments in latent variable models (SPE.13). Chair: <i>Michela Battauz</i> – Discussant: <i>Ruggero Bellio</i></p> <p>A Hidden Markov Model for Variable Selection with Missing Values. <i>Fulvia Pennoni, Francesco Bartolucci, and Silvia Pandolfi</i></p> <p>Comparison between Different Likelihood Based Estimation Methods in Latent Variable Models for Categorical Data. <i>Silvia Bianconcini and Silvia Cagnone</i></p> <p>A Comparison of Estimation Methods for the Rasch Model. <i>Alexander Robitzsch</i></p>
	<p>New issues on multivariate and univariate quantile regression (SPE.14). Chair: <i>Lea Petrella</i> – Discussant: <i>Maria Francesca Marino</i></p> <p>Directional M-quantile regression for multivariate dependent outcomes. <i>Luca Merlo, Lea Petrella and Nikos Tzavidis</i></p> <p>Conditional mid-quantiles for discrete outcomes. <i>Marco Geraci and Alessio Farcomeni</i></p> <p>Minimum Distance Estimation of the Grouped IV Quantile Regression Model. <i>Blaise Melly</i></p>
	<p>Data Science for Industry 4.0 (ENBIS) (SPE.15). Chair: <i>Grazie Vicario</i>– Discussant: <i>Antonio Lepore</i></p> <p>Sample selection from a given dataset to validate machine learning models. <i>Bertrand Iooss</i></p> <p>Reliable data-drive modelling and optimisation of a batch reactor using bootstrap aggregated deep belief networks. <i>Changhao Zhu and Jie Zhang</i></p> <p>Augmented designs ensuring a minimum efficiency. <i>Jesús Fernando López Fidalgo</i></p>
12:00 – 12:15	Break

12:15 - 13:30	Parallel Solicited Sessions 4
	<p>Statistical methods and models for the analysis of sports data (SOL.13). Chair: <i>Mauro Bernardi</i></p> <p>Football analytics: a Higher-Order PLS-SEM approach to evaluate players' performance. <i>Mattia Cefis and Maurizio Carpita</i></p> <p>Bayesian regularized regression of football tracking data through structured factor models. <i>Lorenzo Schiavon and Antonio Canale</i></p> <p>A dynamic matrix-variate model for clustering time series with multiple sources of variation. <i>Mattia Stival</i></p> <p>Evaluating football players' performances using on-the-ball data. <i>David Dandolo</i></p>
	<p>Management and Statistics in Search for a Common Ground (AIDEA) (SOL.14). Chair: <i>Giovanni Battista Dagnino</i></p> <p>Puzzling out what matters most in ESG ratings. Identificazione dei fattori determinanti dei rating ESG. <i>Valentina Lagasio, Francesco Corielli and Marina Brogi</i></p> <p>Customer Segmentation: it's time to make a change. <i>Fabrizio Laurini, Beatrice Luceri and Sabrina Latusi</i></p> <p>Multivariate prediction models: Altman's ZScore and CNDCEC's sectoral indicators. <i>Alessandro Danovi, Alberto Falini and Massimo Postiglione</i></p> <p>Comparing Entrepreneurship and Perceived Quality of Life in the European Smart Cities: a "Posetic" Approach. <i>Lara Penco, Enrico Ivaldi and Andrea Ciacci</i></p> <p>The Relationship between Business Economics and Statistics: Taking Stock and Ways Forward. <i>Amedeo Pugliese</i></p>
	<p>Perspectives in Social Network Analysis Applications (SOL.15). Chair: <i>Maria Prosperina Vitale</i></p> <p>A comparison of student mobility flows in Erasmus and Erasmus+ among countries. <i>Kristijan Breznik, Giancarlo Ragozini and Marialuisa Restaino</i></p> <p>Network-based approach for the analysis of LexisNexis news database. <i>Carla Galluccio and Alessandra Petrucci</i></p> <p>A multiplex network approach to study Italian Students' Mobility. <i>Ilaria Primerano, Francesco Santelli and Cristian Usala</i></p> <p>Ego-centered Support Networks:a Cross-national European Comparison. <i>Emanuela Furfaro, Elvira Pelle, Giulia Rivellini and Susanna Zaccarin</i></p>
	<p>Well-being, healthcare, integration: measurements and indicators (SIEDS) (SOL.16). Chair: <i>Venera Tomaselli</i></p> <p>A Composite Index of Economic Well-being for the European Union Countries. <i>Andrea Cutillo, Matteo Mazziotta and Adriano Pareto</i></p> <p>Poverty orderings and TIP curves: an application to the Italian regions. <i>Francesco M. Chelli, Mariateresa Ciommi and Chiara Gigliarano</i></p> <p>Transition to unemployed after the first Covid19 wave, who is most at risk? Evidence from migrants living in Lombardy. <i>Livia Elisa Ortensi and Gian Carlo Blangiardo</i></p>
13:30 – 15:30	Break
15:30 - 16:30	Parallel Poster Sessions
	Poster Session 1 (POS.1). Chair: <i>Gaia Bertarelli</i>

	<p>Predicting economic indicators using textual data from Parliament verbatim reports. <i>Alessandra Amendola and Alessandro Grimaldi</i></p> <p>A method for incorporating historical information in non-inferiority trials. <i>Fulvio De Santis and Stefania Gubbiotti</i></p> <p>Optimal credible intervals under alternative loss functions. <i>Fulvio De Santis and Stefania Gubbiotti</i></p> <p>Future scenarios and spatial data mining: an application on COVID-19 Twitter data. <i>Simone Di Zio and Yuri Calleo</i></p> <p>Applications of Design of Experiments and machine learning on product innovation: a literature review. <i>Rosa Arboretti, Riccardo Ceccato, Luca Pegoraro and Luigi Salmaso</i></p> <p>Europeans' attitudes towards the idea of a Universal Basic Income. Paolo Emilio Cardone</p>
	<p>Poster Session 2 (POS.2). Chair: <i>Stefano Marchetti</i></p> <p>Classification of Delphi outputs through robust ranking and fuzzy clustering for Delphi-based Future Scenarios. <i>Simone Di Zio, Mario Bolzan and Marco Marozzi</i></p> <p>Statistical learning for credit risk modelling. <i>Veronica Bacino, Alessio Zoccarato, Caterina Liberati and Matteo Borrotti</i></p> <p>Italian Millennials and Subjective Well-Being: the Role of Deprivation on Life Satisfaction. <i>Laura Barbieri, Elena Calegari and Enrico Fabrizi</i></p> <p>Evaluating heterogeneity of agreement with strong prior information. <i>Federico M. Stefanini</i></p> <p>Dynamic skill gap analysis: highly skilled migrants case. <i>Margaret Antonicelli</i></p> <p>Analysis of the spatial interdependence of the size of endore duplicated nuclei observed in confocal microscopy. <i>Ivan Sciascia, Andrea Crosino, Gennaro Carotenuto and Andrea Genre</i></p>
	<p>Poster Session 3 (POS.3). Chair: <i>Francesco Schirripa Spagnolo</i></p> <p>Likert-type scales variables in cluster analysis. <i>Nicolò Biasetton, Marta Disegna and Luigi Salmaso</i></p> <p>A Density-Peak Approach to Clustering Graph-Structured Data. <i>Riccardo Giubilei</i></p> <p>The employment situation of people with disabilities in Tuscany, A Survey on the workplace. <i>Paolo Addis, Alessandra Coli and Gianfranco Francese</i></p> <p>Who wants to publish an "A" paper? <i>Antonio Irpino, Maria Maddalena Barbieri, Francesca Bassi and Rosanna Verde</i></p> <p>Robustness of statistical methods for modeling paired count data using bivariate discrete distributions with general dependence structures. <i>Marta Nai Ruscone and Dimitris Karlis</i></p>
17:00 – 18:00	SIS General Assembly

Friday, June 25	
09:00 - 10:15	Parallel Contributed session 6
	<p>Spatial data analysis (CON. 27). Chair: <i>Alessio Pollice</i></p> <p>Spatial multilevel mixed effects modeling for earthquake insurance losses in New Zealand. <i>F. Marta L. Di Lascio and Selene Perazzini</i></p> <p>Weighted distances for spatially dependent functional data. <i>Andrea Diana, Elvira Romano, Claire Miller and Ruth O'Donnell</i></p> <p>Spatial modeling of childcare services in Lombardia. <i>Lucia Zanotto Emanuele Aliverti, Stefano Campostrini and Federico Caldura</i></p> <p>On the use of a composite attractiveness index for the development of sustainable tourist routes. <i>Claudia Cappello, Sandra De Iaco, Sabrina Maggio and Monica Palma</i></p>
	<p>Advances in statistical methods (CON. 28). Chair: <i>Mariagiulia Matteucci</i></p> <p>Robustness of Fractional Factorial Designs through Circuits. <i>Roberto Fontana and Fabio Rapallo</i></p> <p>Multi-objective optimal allocations for experimental studies with binary outcome. <i>Alessandro Baldi Antognini, Rosamarie Frieri, Marco Novelli and Maroussa Zagoraïou</i></p> <p>Analysis of three-way data: an extension of the STATIS method. <i>Laura Bocci and Donatella Vicari</i></p> <p>KL-optimum designs to discriminate models with different variance function. <i>Alessandro Lanteri, Samantha Leorato and Chiara Tommasi</i></p> <p>Riemannian optimization on the space of covariance matrices. <i>Jacopo Schiavon, Mauro Bernardi and Antonio Canale</i></p>
	<p>Statistical methods in higher education (CON. 29). Chair: <i>Luca Secondi</i></p> <p>Effects of remote teaching on students' motivation and engagement: the case of the University of Modena & Reggio Emilia. <i>Isabella Morlini and Laura Sartori</i></p> <p>A random effects model for the impact of remote teaching on university students' performance. <i>Silvia Bacci, Bruno Bertaccini, Simone Del Sarto, Leonardo Grilli and Carla Rampichini</i></p> <p>Multinomial semiparametric mixed-effects model for profiling engineering university students. <i>Chiara Masci, Francesca Ieva and Anna Maria Paganoni</i></p> <p>Evaluating Italian universities: ANVUR periodic accreditation judgment versus international rankings. <i>Angela Maria D'Uggento, Nunziata Ribecco and Vito Ricci</i></p> <p>Women's career discrimination in the Italian Academia in the last 20. <i>Daniele Cuntrera, Vincenzo Falco and Massimo Attanasio</i></p>
	<p>Statistical methods with Bayesian networks (CON. 30). Chair: <i>Daniela Marella</i></p> <p>Statistical Micro Matching Using Bayesian Networks. <i>Pier Luigi Conti, Daniela Marella, Paola Vicard and Vincenzina Vitale</i></p> <p>Modeling school managers challenges in the pandemic era with Bayesian networks. <i>Maria Chiara De Angelis and Flaminia Musella and Paola Vicard</i></p> <p>Structural learning of mixed directed acyclic graphs: a copula-based approach. <i>Federico Castelletti</i></p> <p>Inference on Markov chains parameters via Large Deviations ABC. <i>Cecilia Viscardi, Fabio Corradi, Michele Boreale and Antonietta Mira</i></p> <p>A propensity score approach for treatment evaluation based on Bayesian Networks. <i>Federica Cugnata, Paola M.V. Rancoita, Pier Luigi Conti, Alberto Briganti, Clelia Di Serio, Fulvia Mecatti and Paola Vicard</i></p>

	<p>Statistical modelling for the analysis of contemporary societies (CON. 31). Chair: <i>Raffaele Guetto</i></p> <p>Social Network Analysis to analyse the relationship between ‘victim-author’ and ‘motivation’ of violence against women in Italy. <i>Alessia Forciniti</i></p> <p>Satisfaction and sustainability propensity among elderly bike-sharing users. <i>Paolo Maranzano, Roberto Ascari, Paola Maddalena Chiodini and Giancarlo Manzi</i></p> <p>Media and Investors’ Attention. Estimating analysts’ ratings and sentiment of a financial column to predict abnormal returns. <i>Riccardo Ferretti and Andrea Sciandra</i></p> <p>Predictions of regional HCE: spatial and time patterns in an ageing population framework. <i>Laura Rizzi, Luca Grassetti, Divya Brundavanam, Alvisa Palese and Alessio Fornasin</i></p> <p>Public support for an EU-wide social benefit scheme: evidence from Round 8 of the European Social Survey (ESS). <i>Paolo Emilio Cardone</i></p>
10:15 – 10:30	Break
10:30 – 11:30	<p>Plenary session 4</p> <p>Chair: <i>Nicola Torelli</i></p> <p>Monica Pratesi: Citizen data and citizen science: a challenge for official statistics</p>
11:30 – 11:45	Break
11:45 – 13:00	Parallel Contributed Sessions 7
	<p>Statistical methods for High dimensional data (CON.32). Chair: <i>Raffinetti Emanuela</i></p> <p>Virtual biopsy in action: a radiomic-based model for CALI prediction. <i>Francesca Ieva, Giulia Baroni, Lara Cavinato, Chiara Masci, Guido Costa, Francesco Fiz, Arturo Chiti and Luca Viganò</i></p> <p>Functional alignment by the “light” approach of the von Mises-Fisher-Procrustes model. <i>Angela Andreella and Livio Finos</i></p> <p>A screening procedure for high-dimensional autologistic models. <i>Rodolfo Metulini and Francesco Giordano</i></p> <p>Ranking-Based Variable Selection for ultra-high dimensional data in GLM framework. <i>Francesco Giordano, Marcella Niglio and Marialuisa Restaino</i></p>
	<p>New perspectives in models for multivariate dependency (CON.33). Chair: <i>Caterina Giusti</i></p> <p>Parsimonious modelling of spectroscopy data via a Bayesian latent variables approach. <i>Alessandro Casa, Tom F. O’Callaghan and Thomas Brendan Mur</i></p> <p>Bias reduction in the equicorrelated multivariate normal. <i>Elena Bortolato and Euloge Clovis Kenne Pagui</i></p> <p>Some results on identifiable parameters that cannot be identified from data. <i>Christian Hennig</i></p> <p>A Multivariate Dependence Analysis for Electricity Prices. <i>Luca Rossini, Fabrizio Durante, Angelica Gianfreda and Francesco Ravazzolo</i></p>
	<p>Advances in neural networks (CON.34). Chair: <i>Bitetto Alessandro</i></p> <p>Linear models vs Neural Network: predicting Italian SMEs default. <i>Lisa Crosato, Caterina Liberati and Marco Repetto</i></p> <p>Network estimation via elastic net penalty for heavy-tailed data. <i>Davide Bernardini, Sandra Paterlini and Emanuele Tauffer</i></p> <p>Neural Network for statistical process control of a multiple stream process with an application to HVAC systems in passenger rail vehicles. <i>Gianluca Sposito, Antonio Lepore, Biagio Palumbo and Giuseppe Giannini</i></p>

	Forecasting air quality by using ANNs. <i>Annalina Sarra, Adelia Evangelista, Tonio Di Battista and Francesco Bucci</i>
	<p>Advances in time series (CON.35). Chair: <i>Candila Vincenzo</i></p> <p>A spatio-temporal model for events on road networks: an application to ambulance interventions in Milan. <i>Andrea Gilardi and Riccardo Borgoni and Jorge Mateu</i></p> <p>Forecasting electricity demand of individual customers via additive stacking. <i>Christian Capezza, Biagio Palumbo, Yannig Goude, Simon N. Wood and Matteo Fasiolo</i></p> <p>Hierarchical Forecast Reconciliation on Italian Covid-19 data. <i>Andrea Marcocchia, Serena Arima and Pierpaolo Brutti</i></p> <p>Link between Threshold ARMA and tdARMA models. <i>Guy M�elard and Marcella Niglio</i></p>
	<p>Recent advances in clustering methods (CON.36). Chair: <i>M. Francesca Marino</i></p> <p>Biclustering longitudinal trajectories through a model-based approach. <i>Francesca Martella, Marco Alf� and Maria Francesca Marino</i></p> <p>Monitoring tools for robust estimation of Cluster Weighted models. <i>Andrea Cappozzo and Francesca Greselin</i></p> <p>Co-clustering Models for Spatial Transcriptomics: Analysis of a Human Brain Tissue Sample. <i>Andrea Sottosanti and Davide Risso</i></p> <p>Graph nodes clustering: a comparison between algorithms. <i>Ilaria Bombelli</i></p>
	<p>New developments in Bayesian methods (CON.37). Chair: <i>Leonardo Egidi</i></p> <p>Spatio-temporal analysis of the Covid-19 spread in Italy by Bayesian hierarchical models. <i>Nicoletta D'Angelo, Giada Adelfio and Antonino Abbruzzo</i></p> <p>Modelling of accumulation curves through Weibull survival functions. <i>Alessandro Zito, Tommaso Rigon and David B. Dunson</i></p> <p>Model fitting and Bayesian inference via power expectation propagation. <i>Emanuele Degani, Luca Maestrini and Mauro Bernardi</i></p> <p>Bayesian quantile estimation in deconvolution. <i>Catia Scricciolo</i></p> <p>Bayesian inference for discretely observed non-homogeneous Markov processes. <i>Rosario Barone and Andrea Tancredi</i></p>
13:00 – 13:45	Break
13:45 – 15:00	Parallel Solicited Sessions 5
	<p>Mathematical Methods and Tools for Finance and Insurance (AMASES) (SOL.17). Chair: <i>Marco Corazza</i></p> <p>On the valuation of the initiation option in a GLWB variable annuity. <i>Anna Rita Bacinello and Pietro Millosovich</i></p> <p>Modern design of life annuities in view of longevity and pandemics. <i>Annamaria Olivieri</i></p> <p>Risk Management from Finance to Production Planning: An Assembly-to-Order Case Study. <i>Paolo Brandimarte, Edoardo Fadda and Alberto Gennaro</i></p> <p>Some probability distortion functions in behavioral portfolio selection. <i>Diana Barro, Marco Corazza and Martina Nardonthors</i></p>
	<p>Multiple System Estimation (SOL.18). Chair <i>Brunero Liseo</i></p> <p>Multiple Systems Estimation in the Presence of Censored Cells. <i>Ruth King, Oscar Rodriguez de Rivera Ortega and Rachel McCrea</i></p>

	<p>Bayesian population size estimation by repeated identifications of units. A semi-parametric mixture model approach. <i>Tiziana Tuoto, Davide Di Cecco and Andrea Tancredi</i></p> <p>Random partitions for microclustering. <i>Giacomo Zanella</i></p>
	<p>Network sampling and estimation (SOL.19). Chair: <i>Pier Francesco Perri</i></p> <p>Targeted random walk sampling. <i>Li-Chun Zhang</i></p> <p>Estimation of poverty measures in Respondent-driven sampling. <i>María del Mar Rueda, Ismael Sánchez-Borrego and Héctor Mullo</i></p> <p>Sampling Networked Data for Semi-Supervised Learning Algorithms. <i>Simone Di Zio, Lara Fontanella, Francesco Pantalone and Federica Piersimoni</i></p> <p>A sequential adaptive sampling scheme for rare populations with a network structure. <i>Emilia Rocco</i></p>
	<p>The social and demographic consequences of international migration in Western societies (SOL.20). Chair: <i>Roberto Impicciatore</i></p> <p>Employment and job satisfaction of immigrants: the case of Campania (Italy). <i>Alessio Buonomo, Stefania Capecchi, Francesca Di Iorio and Salvatore Strozza</i></p> <p>Social stratification of migrants in Italy: class reproduction and social mobility from origin to destination. <i>Giorgio Piccitto, Maurizio Avola and Nazareno Panichella</i></p> <p>Transnational families and educational outcomes: Evidence from Second-Generation Immigrants in Italy. <i>Francesca Tosi</i></p> <p>Consequences of illegal spells. Previous undocumented experience and labour market outcomes in Italy. <i>Roberto Impicciatore, Rocco Molinari and Livia Elisa Ortensi</i></p>
15:00 – 16:00	Break
16:00 – 17.15	<p>Panel discussion: Designing social and gender indicators for policies: a challenge for statistics and policy makers</p> <p>Chair: <i>Corrado Crocetta</i>, President of SIS</p> <p><i>Linda Laura Sabbadini</i> (Organiser), Central director of Istat, Chair Women20</p> <p><i>Francesca Grum</i>, Chief of the Social and Gender Statistics Section in the United Nations Statistics Division (UNSD)</p> <p><i>Monica Pratesi</i>, holder of the Jean Monnet Chair Small Area methods for Multidimensional Poverty and living conditions, President elect IASS</p> <p><i>Filomena Maggino</i>, Professor of Social Statistics at the Sapienza University of Rome, Coordinator of the Department for Integral Wellbeing – Pontificia Academia Mariana Internationalis (Santa Sede).</p> <p><i>Angela Me</i>, chief of the United Nations Office for Drug and Crime Statistics and Surveys Section</p>
17:15 – 17:30	Closing ceremony