



	PROGRAMME
	Wednesday, 22 June
9:00-10:00	OPENING AND WELCOME
10:00-10:45	Plenary Session 1 - chair: Laura Ventura Causal inference in air pollution epidemiology Francesca Dominici (Harvard School of Public Health)
10:45-11:15	Coffee break
11:15-12:45	Parallel Specialized Sessions 1
11:15-12:45	SPE1 - Advances in Bayesian nonparametric methodology - chair: Raffaele Argiento
	Repulsive mixture models for high-dimensional data Lorenzo Ghilotti, Mario Beraha and Al Gualielmi

Room A2 + Aula Magna 1 A2 + Aula Magna **D2** 1 Alessandra Guglielmi Bayesian nonparametric mixtures of directed acyclic graph models Federico Castelletti and Guido Consonni Bayesian Clustering of Brain Regions via Extended Stochastic Block Models Sirio Legramanti, Tommaso Rigon and Daniele Durante discussant: Laura D'Angelo

11:15-12:45	SPE2 - Data Science skills for next generation statisticians - chair: Paola Cerchiello	E2
	Cluster based oversampling for rimbalanced learning Gioia Di Credico and Nicola Torelli	
	Estimating the effect of remote teaching for university students through generalised linear mixed	
	models Silvia Bacci, Bruno Bertaccini, Simone Del Sarto, Leonardo Grilli and Carla Rampichini	
	Perceived stress across EU countries: does working from home impact? Stefania Capecchi,	
	Francesca Di Iorio and Nunzia Nappo	
	discussant: Paolo Pagnattoni	
11:15-12:45	SPE3 - Non-parametric and semi-parametric multivariate models - <i>chair</i> : Enrico Ciavolino	F2
	"Fallacies" of PLS-SEM: An investigation Christian M. Ringle and Marko Sarstedt	
	Combine text-mining and PLS-SEM to capture heterogeneity in food satisfaction across Italy: where	
	the gut re(counts)! Michelangelo Misuraca, Paola Pasca and Alessia Meloni	
	Negative Information, or how models see data: methodological issues and applications Mario Angelelli	
	discussant: Corrado Crocetta	
11:15-12:45	SPE4 - Investigating effects of air pollution on health: a challenge for statisticians - chair:	Magna
	Francesca Dominici	Ŭ
	Investigating effect of air pollution on health via Spatial-Resolution Varying Coefficient Models Garritt	
	L. Page and Massimo Ventrucci	
	A statistical framework for evaluating health effect of PM sources Monica Pirani, Georges	
	Bucyibaruta, Gary Fuller, David Green, Anja Tremper, Christina Mitsakou and Marta Blangiardo	
	Adjusting for unmeasured spatial confounding through shrinkage methods Pasquale Valentini,	
	Alexandra M. Schmidt, Carlo Zaccardi and Luigi Ippoliti	
	discussant: Fedele Pasquale Greco	
11:15-12:45	SIS GROUP Meeting - DIAS - Data, Indicators and Analyses for Sustainability	A2
	chair: Filomena Maggino	
12:45-14:00	Lunch	
14:00-15:15	Parallel Solicited Sessions 1	
14:00-15:15	SOL1 - Bayesian nonparametric modelling and learning - <i>chair</i> : Marta Catalano	F2
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14:00-15:15	SOL4 - Statistics for finance: new models, new data - chair: Giovanni De Luca	C2
	The News-Jumps Relationship in the Cryptocurrency Market Ahmet Faruk Aysan, Massimiliano	
	Caporin, Oguzhan Cepni and Francesco Poli	
	A weighted quantile approach to Expected Shortfall forecasting Giuseppe Storti and Chao Wang	
	Smooth and abrupt dynamics in financial volatility: the MS-MEM-MIDAS Giampiero M. Gallo, Edoardo	
	Otranto and Luca Scaffidi Domianello	
	The tail index and related quantities for volatility models Fabrizio Laurini	
14:00-15:15	Guest Session - ENBIS - European Network for Business and Industrial Statistics	A2
	chair: Rossella Berni	
	Interpretability in functional clustering with an application to resistance spot welding process in the	
	automotive industry Christian Capezza, Fabio Centofanti, Antonio Lepore and Biagio Palumbo	
	Covariate-adaptive design based on the simulated annealing Marco Novelli, Alessandro Baldi	
	Antognini and Maroussa Zagoraiou	
	Statistical process monitoring of thermal images in additive manufacturing: a nonparametric solution	
	for in-situ monitoring Panagiotis Tsiamyrtzis, Marco Luigi Giuseppe Grasso and Bianca Maria	
	Colosimo	
14:00-15:15	Guest Session - IBS - International Biometric Society - Italian region - <i>chair</i> : Stefania Galimberti	Magna
	Multiple arrows in the bayesian quiver: bayesian learning of partially directed structures from	_
	heterogeneous data Luca La Rocca, Federico Castelletti, Stefano Peluso, Francesco Claudio Stingo	
	and Guido Consonni	
	Enhancing treatment effects evaluation in observational studies: a propensity score method based on	
	Bayesian Networks Paola Vicard, Paola M.V. Rancoita, Federica Cugnata, Alberto Briganti, Fulvia	
	Mecatti, Clelia Di Serio and Pier Luigi Conti	
	Ensemble inference in multiverse analysis Livio Finos	
	discussant: Luca Tardella	
15:15-16:15	Parallel Contributed Sessions 1	
15:15-16:15	CON1 - Applications in Machine Learning - <i>chair</i> : Alessandro Bitetto	A2
	A neural network approach to survival analysis with time-dependent covariates for modelling time to	
	cardiovascular diseases in HIV patients Federica Corso, Agostino Lurani Cernuschi, Laura Galli,	
	Chiara Masci, Camilla Muccini, Anna Maria Paganoni and Francesca leva	
	Application of Explainable Artificial Intelligence in the Cryptocurrency market Golnoosh Babae i and	
	Fatemeh Mojtahedi	
	Analyzing the Correlation Structure of Financial Markets Using a Quantile Graphical Model Beatrice	
	Foroni, Luca Merlo and Lea Petrella	
	Neural Network for statistical process control of a multiple stream binomial process with an application	
	to HVAC systems in passenger rail vehicles Gianluca Sposito, Antonio Lepore, Biagio Palumbo and	
	Giuseppe Giannini	
	Sparse signal extraction via variational SVM Cristian Castiglione and Mauro Bernardi	
15:15-16:15	CON2 - Bayesian modelling and inference 1 - <i>chair</i> : Alessandra Guglielmi	D2
	Mapping Indicators on the Unit Interval: the tipsae Shiny App Silvia De Nicolò and Aldo Gardini	
	A Bayesian spatio-temporal model of PM10 pollutant in the Po Valley Matteo Gianella, Alessandra	
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	A Bayesian spatio–temporal model of PM10 pollutant in the Po Valley <i>Matteo Gianella, Alessandra Guglielmi and Giovanni Lonati</i> Construction if a proper prior for a Bayesian envelope model <i>Andrea Mascaretti</i>	
	A Bayesian spatio–temporal model of PM10 pollutant in the Po Valley Matteo Gianella, Alessandra Guglielmi and Giovanni Lonati	

15:15-16:15	CON3 - Methods of causal inference - chair: Falco J. Bargagli Stoffi	C2
	Bayesian causal mediation analysis through linear mixed-effect models Chiara Di Maria, Antonino	
	Abbruzzo and Gianfranco Lovison	
	Bootstrap-aggregated adjustment set selection Lorenzo Giammei	
	Exploiting partial knowledge to evaluate the average causal effect via an ABC perspective Giulia	
	Cereda, Fabio Corradi and Cecilia Viscardi	
	Intertemporal propensity score matching for casual inference: an application to covid-19 lockdowns	
	and air pollution in Northern Italy Daniele Bondonio and Paolo Chirico	
15:15-16:15	CON4 - Methods for Spatio-temporal data - chair: Pierfrancesco Alaimo di Loro	F2
	Spatial explorative analysis of thyroid cancer in Sicilian volcanic areas Francesca Bitonti and Angelo	
	Mazza	
	Using geo-spatial topic modelling to understand the public view of Italian Twitter users: a climate	
	change application Yuri Calleo and Francesco Pilla	
	DISTATIS-based spatio-temporal clustering approach: an application to business cycles' time series	
	Raffaele Mattera and Germana Scepi	
	Bias correction of the maximum likelihood estimator for Emax model at the interim analysis Caterina	
	May and Chiara Tommasi	
15:15-16:15	CON5 - Developments in composite indicators - <i>chair</i> : Maurizio Vichi	E2
	Bayesian Networks for monitoring the gender gap Flaminia Musella, Lorenzo Giammei, Silvana	
	Romio, Fulvia Mecatti and Paola Vicard	
	An Alternative Aggregation Function for the UNDP Human Development Index Manuela Scioni and	
	Paola Annoni	
	An ultrametric model for building a composite indicator system to study climate change in European	
	countries Giorgia Zaccaria and Pasquale Sarnacchiaro	
	Functional Weighted Malmquist Productive Index: a proposal for a dynamic composite indicator	
	Annalina Sarra, Eugenia Nissi and Tonio Di Battista	
	CEA & PLS-PM for LIX-AL Product infused Emma Zavarrone and Rosanna Cataldo	
15.15-16.15	CFA & PLS-PM for UX-AI Product infused Emma Zavarrone and Rosanna Cataldo	C3
15:15-16:15	CON6 - Fertility, adulthood and economic uncertainty - chair: Annalisa Busetta	C3
15:15-16:15	CON6 - Fertility, adulthood and economic uncertainty - <i>chair</i> : Annalisa Busetta Uncertainty and fertility intentions: a comparison between the Great Recession and the Covid-19 crisis	C3
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n the energy distributions of their songs on Spotify via the Common Atoms	
Federico Camerlenghi, Michele Guindani and Antonietta Mira	
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18:15-19:15 CON9 - Covid-19 Assessment and Evaluation 1 - chair: Andrea Bucci	A2
Covid-19 impact assessment and inequality decomposition methods Federico Attili and Michele Costa	
Multiversal methods for model selection: COVID-19 vaccine coverage and relative risk reduction Venera Tomaselli and Giulio Giacomo Cantone	
The impact of vaccination rate on the spread of COVID-19 waves Arianna Agosto and Paola Cerchiello	
Efficiency and feasibility of two stage sampling designs for estimating SARS-CoV-2 epidemic <i>Pietro Demetrio Falorsi, Vincenzo Nardelli and Giuseppe Arbia</i> Evaluating the impacts of Covid-19 on the overall Italian death process via Functional Data Analysis <i>Riccardo Scimone, Alessandra Menafoglio, Laura M. Sangalli and Piercesare Secchi</i>	
18:15-19:15 CON10 - Developing countries, migration and migrants - chair : Thais García-Pereiro	F2
Domestic violence in Africa: a glance through the DHS survey <i>Micaela Arcaio, Daria Mendola and Anna Maria Parroco</i> Inequalities in undernutrition among Roma and non-Roma children in Western Balkans: an analysis of the determinants <i>Annalisa Busetta, Valeria Cetorelli and Chiara Puglisi</i>	
The manual, communicative and quantitative abilities of native and foreign workers according to their level of education in Italy <i>Camilla Pangallo, Oliviero Casacchia and Corrado Polli</i> HIV Prevalence in some African Territories: Socio-Economic Drivers <i>Micaela Arcaio, Daria Mendola</i>	
and Anna Maria Parroco A longitudinal cross country comparison of migrant integration policies via Mixture of Matrix-Normals Leonardo Salvatore Alaimo, Francesco Amato and Emiliano Seri	
18:15-19:15 CON11 - Education and job placement - chair: Mariano Porcu	C2
Measuring happiness at work with categorical Principal Component Analysis Ulpiana Kocollari, Maddalena Cavicchioli and Federica Demaria	
Proposal of indicators for the Education domain of the "Amisuradicomune" system <i>Monica</i> <i>Carbonara, Salvatore Cariello, Agata Maria Madia Carucci and Domenico Tebala</i> Early and accurate: a Machine Learning approach to predict students' final outcome with registry data <i>Lidia Rossi, Marta Cannistrà and Tommaso Agasisti</i>	
Students' experience with distance learning during Covid 19 pandemic in Southern Italy Angela Maria	
D'Uggento and Nunziata Ribecco	
D'Uggento and Nunziata Ribecco Covid-19 and financial professional advice Marianna Brunetti and Rocco Ciciretti	
D'Uggento and Nunziata Ribecco Covid-19 and financial professional advice Marianna Brunetti and Rocco Ciciretti 18:15-19:15 CON12 - Time series methods and Applications - chair: Paolo Pagnottoni	C3
D'Uggento and Nunziata Ribecco Covid-19 and financial professional advice Marianna Brunetti and Rocco Ciciretti 18:15-19:15 CON12 - Time series methods and Applications - chair: Paolo Pagnottoni Trend and cycle decomposition in nonlinear time series Maddalena Cavicchioli	C3
D'Uggento and Nunziata Ribecco Covid-19 and financial professional advice Marianna Brunetti and Rocco Ciciretti 18:15-19:15 CON12 - Time series methods and Applications - chair: Paolo Pagnottoni	C3
D'Uggento and Nunziata Ribecco Covid-19 and financial professional advice Marianna Brunetti and Rocco Ciciretti 18:15-19:15 CON12 - Time series methods and Applications - chair: Paolo Pagnottoni Trend and cycle decomposition in nonlinear time series Maddalena Cavicchioli Asymptotic properties of the SETAR parameters: a new approach Marcella Niglio and Guy Mélard Food prices forecast using post-sampled crowdsourced data with Reg-ARMA model: the case of	C3

Thrusday, 23 June

3:30-9:30	CON13 - Bayesian modelling and inference 3 - <i>chair:</i> Emanuele Aliverti	D2
	A dynamic power prior approach to non-inferiority trials for normal means with unknown variance	
	Francesco Mariani, Fulvio De Santis and Stefania Gubbiotti	
	Bayesian Change-Point Detection for a Brownian Motion with a Total Miss Criterion Bruno Buonaguidi	
	On the comparison of alternative Bayesian measures of posterior discrepancy Fulvio De Santis and	
	Stefania Gubbiotti	
	A Bayesian Test for the comparison of two independent populations <i>Mara Manca, Silvia Columbu and Monica Musio</i>	
	A contribution to the i. j. savage problem Francesco Bertolino, Silvia Columbu and Mara Manca	
3:30-9:30	CON14 - Methods for Complex Data - chair: Francesco Palumbo	A2
	Optimization of delayed rejection adaptive metropolis Daniele Raffo and Antonietta Mira	
	Dealing with multicollinearity and outliers in multinomial logit model: a simulation study Ida Camminatiello and Antonio Lucadamo	
	A tool to validate the assumptions on ratios of nearest neighbors' distances: the Consecutive Ratio	
	Paths Francesco Denti and Antonietta Mira	
	Dimensionality reduction and visualization for interval-valued data via midpoints-ranges principal	1
	component analysis Viviana Schisa, Alfonso Iodice D'Enza and Francesco Palumbo	
	Data-driven design-based mapping of forest resources Sara Franceschi, Rosa Maria Di Biase,	
	Lorenzo Fattorini, Marzia Marcheselli and Caterina Pisani	50
30-9:30	CON15 - Environmental data and Climate change - <i>chair</i> : Pasquale Valentini	F2
	Ensemble model output statistics for temperature forecasts in Veneto Gaetan Carlo, Giummole	
	Federica, Mameli Valentina and Siad Si Mokrane	
	State of the urban Environment in Italy. A comparative analysis of selected composite indicators <i>Giuseppe Lecardane</i>	
	A Functional Data Analysis approach for Climate Model Selection : the case study of Campania Region	
	ViVeronica Villani, Elvira Romano and Paola Mercogliano	
	Evolution of scientific literature on climate change: a bibliometric analysis Gianpaolo Zammarchi,	
	Giulia Contu and Maurizio Romano	
	Energy and material demand of the Italian Regions Flora Fullone, Giulia Iorio and Assunta Lisa Carulli	
30-9:30	CON16 - Health and survivorship - <i>chair</i> : Manuela Stranges	C2
	The role of health conditions in the relationship between socio-economic status and well-being: the counterfactual approach in mediation models Sara Manzella and Margherita Silan	
	Excess economic burden of multimorbidity: a population-based study in Italy Chiara Seghieri, Niccolò	
	Borri, Gaia Bertarelli and Sabina Nuti	
	Depression-free life expectancy among 50 and older Americans by gender, race/ethnicity and	1
	education: the effect of marital disruption Alessandro Feraldi and Cristina Giudici	
	Disability-free grandparenthood in Italy. Trends and gender differences Margherita Moretti, Elisa Cisotto and Alessandra De Rose	
<u></u>	CON17 - Advances in regression models - <i>chair</i> : Antonella Rocca	E2
	Semiparametric M-quantile regression for modelling georeferenced housing price data <i>Riccardo</i>	
	Borgoni, Antonella Carcagnì, Alessandra Michelangeli, Nicola Salvati and Francesco Schirripa	
	Spagnolo Resampling-based inference for high-dimensional regression Anna Vesel, Jelle J. Goeman, Angela	
	Andreella and Livio Finos Quantile regression coefficient modeling for counts to evaluate the productivity of university students	
	Viviana Carcaiso and Leonardo Grilli	1
	Adaptive smoothing spline using non-convex penalties Daniele Cuntrera and Vito M.R. Muggeo	

8:30-9:30	CON18 - Methods and applications in economics and finance - <i>chair</i> : Francesca Giambona	C3
	Mixed models for anomaly detection in anti-money laundering aggregate reports Stefano lezzi and	
	Marianna Siino	
	On the drivers of Greenwashing risk: evidence from Eurostoxx600 Yana Kostiuk, Costanza Bosone and Paola Cerchiello	
	Modelling Financial Returns with Finite Mixtures of GED <i>Pierdomenico Duttilo and Stefano Antonio Gattone</i>	
	Risk Parity strategy for portfolio construction: a kurtosis-based approach Maria Debora Braga,	
	Consuelo Rubina Nava and Maria Grazia Zoia	
	Fully reconciled probabilistic GDP forecasts from Income and Expenditure sides <i>Tommaso Di Fonzo</i> and Daniele Girolimetto	
9:30-10:15	Plenary Session 2 - chair: Stefano Campostrini	A2 +
	Clustering of Attribute and Network Data	Aula
	Anuška Ferligoj (University of Ljubljana)	Magna
10:15-11:00	Plenary Session 3 - chair: Raffaele Argiento	A2 +
	Bayesian approaches for capturing the heterogeneity of neuroimaging experiments Michele Guindani (University of California Irvine)	Aula Magna
11:00-11:30	Coffee break	
	Parallel Specialized Sessions 3	
11:30-13:00	SPE9 - Advances in complex sampling strategies - chair: Pier Luigi Conti	A2
	Random forest model-assisted estimation for finite population totals Mehdi Dagdoug, Camelia Goga	
	and David Haziza	
	Design-based consistency of the Horvitz-Thompson estimator in spatial sampling Lorenzo Fattorini	
	The responsive-adaptive survey design approach for planning the permanent census of population and	
	housing Claudia De Vitiis, Stefano Falorsi, Alessio Guandalini, Francesca Inglese, Paolo Righi and	
	Marco D. Terribili	
	discussant: Enrico Fabrizi	
11:30-13:00	SPE10 - Socio-demographic aspects of aging in Italy - <i>chair</i> : Giuseppe Gabrielli	D2
	Socio-economic and spatial stratification of frailty in the older population Margherita Silan	
	Time allocation and wellbeing in later life: the case of Italy <i>Annalisa Donno and Maria Letizia Tanturri</i> The role played by migration and fertility on Italy's demographic aging trends: a provincial-level analysis <i>Thaís García-Pereiro and Anna Paterno</i> discussant: <i>Bruno Arpino</i>	
11:30-13:00	SPE11 - New challenges in the labour market - <i>chair</i> : Francesca Adele Giambona	E2
	Detecting changes and evolution in specialized professional figures: an application on the Italian IT &	
	Digital sector Andrea Marletta	
	How did the COVID-19 pandemic affect the genderpay gap in EU countries? Antonella Rocca, Paolo	
	Mazzocchi, Giovanni De Luca, Rosalia Castellano and Claudio Quintano	
	Skill Similarities and Dissimilarities in Online Job Vacancy Data across Italian Regions Adham	
	Kahlawi, Lucia Buzzigoli, Laura Grassini and Cristina Martelli	
	discussant: Francesca Bassi	
11:30-13:00	SPE12 - Small area estimation methods with socioeconomic applications - <i>chair</i> : Maria Rosaria Ferrante	F2
	Exploring Small Area Estimation techniques to address uncertainty in Spatial Price Indexes Ilaria Benedetti and Federico Crescenzi	
	Flexible small area estimation of theil index using mixture of Beta Silvia De Nicolò and Silvia Pacei	
	Inference for big data assisted by small area methods: an application to OBEC (on-line based	
	enterprise characteristics) Monica Pratesi, Francesco Schirripa Spagnolo, Gaia Bertarelli, Stefano	
	Marchetti, Monica Scannapieco, Nicola Salvati and Donato Summa	
	disquasanti Cianni Rotti	
11:30-13:00	discussant: <i>Gianni Betti</i> SIS GROUP Meeting - FutureSis	Magna
11:30-13:00		Magna

14:15-15:30	Parallel Solicited Sessions 2	
14:15-15:30	SOL5 - Bayesian inference for complex random structures - <i>chair</i> : Federico Camerlenghi	B2
	Bayesian nonparametric modeling of mortality curves via functional Dirichlet processes <i>Emanuele</i> <i>Aliverti and Bruno Scarpa</i> Bayesian nonparametric clustering of spatially-referenced spike train data <i>Laura D'Angelo</i> Towards and objective prior for bayesian cluster analysis Isadora <i>Antoniano-Villalobos, Cristiano Villa</i> <i>and Sara Wade</i> Bayesian Analysis of Mortality in Iceland via Locally Adaptive Splines <i>Federico Pavone and Sirio</i> <i>Legramanti</i>	
14:15-15:30	SOL6 - Advances in clustering - chair: Giorgia Zaccaria	D2
	A Two-step Latent Class Approach with Measurement Invariance Testing <i>Zsuzsa Bakk, Roberto Di</i> <i>Mari, Jennifer Oser and Marc Hooghe</i> Group-wise penalized estimation schemes in model-based clustering <i>Alessandro Casa, Andrea</i> <i>Cappozzo and Michael Fop</i> Extending finite mixtures of latent trait analyzers for bipartite networks <i>Dalila Failli, Maria Francesca</i> <i>Marino and Francesca Martella</i> A Fast Majorization-Minimization Algorithm for Convex Clustering <i>Daniel J.W. Touw, Patrick J.F.</i> <i>Groenen and Yu Terada</i>	
14:15-15:30	SOL7 - Statistical Methods for Complex Evolutionary Data - chair: Francesca Fortuna	E2
	A FANOVA model with repeated measures for detecting patterns in biomechanical data Ana M. Aguilera, Christian Acal and Manuel Escabias Modes of variation for Lorenz curves Enea G. Bongiorno and Aldo Goia Analyzing textual data through Word Embedding: experiences in Istat Mauro Bruno, Elena Catanese, Massimo De Cubellis, Fabrizio De Fausti, Francesco Pugliese, Monica Scannapieco and Luca Valentino Functional Horvitz-Thompson estimator for convex curves Adelia Evangelista, Francesca Fortuna, Stefano Antonio Gattone and Tonio Di Battista	
14:15-15:30	SOL8 - Children, parents, grandparents: a look on changing relationships chair: Anna Paterno	F2
	Changes in social relationships of Italian older people. Evidence from FSS and SHARE Corona surveys <i>Elvira Pelle, Giulia Rivellini and Susanna Zaccarin</i> Internet use and contacts with children among older Europeans <i>Bruno Arpino</i> A time-based comparative approach to study the changing demography of grandparenthood in Italy <i>Elisa Cisotto, Eleonora Meli and Giulia Cavrini</i> Carrying on the weight: Parental separation and children's Body Mass Index from childhood to young adulthood <i>Marco Tosi</i>	
14:15-15:30	SOL9 - Living conditions, well-being and poverty - <i>chair</i> : Francesco Maria Chelli	Magn
	Analyzing the impact of COVID-19 pandemic on elderly population well-being <i>Gloria Polinesi,</i> <i>Mariateresa Ciommi and Chiara Gigliarano</i> Exploring sustainable food purchasing behaviour using Italian scanner data <i>Ilaria Benedetti,</i> <i>Alessandro Brunetti, Federico Crescenzi and Luigi Palumbo</i> The evaluation of heat vulnerability in Friuli-Venezia Giulia <i>Laura Pagani, Maria Chiara Zanarotti and</i> <i>Anja Habus</i> Understanding School-to-Work Transition in Italy: First Results from a Newly Integrated Database <i>Stefano De Santis, Anita Guelfi, Valentina Talucci and Francesco Maria Truglia</i>	

14:15-15:15	Parallel Contributed Sessions 4	
14:15-15:15	CON19 - Latent Class models - <i>chair</i> : Leonardo Grilli	C3
	Latent thresholds model in classification tasks <i>Giuseppe Mignemi, Andrea Spoto and Antonio Calcagnì</i>	
	Adaptive filters for time-varying correlation parameters Michele Lambardi di San Miniato, Ruggero Bellio, Luca Grassetti and Paolo Vidoni	
	Bayesian structural learning for Latent Class Model with an application to Record Linkage Davide Di Cecco	
	Multilevel Latent Class modelling to advise students in self-learning platforms: an application in the context of learning Statistics Roberto Fabbricatore, Zsuzsa Bakk, Roberto Di Mari, Mark de Rooij and Francesco Palumbo	
	Latent Markov models with associated mixed responses Alfonso Russo and Alessio Farcomeni	
14:15-15:15	CON20 - Methods for health studies - <i>chair</i> : Sara Fontanella	C2
	Beyond the fragility index <i>Piero Quatto and Enrico Ripamonti</i> Evaluation of the diagnostic-therapeutic paths for schizophrenic patients through state sequences analysis <i>Laura Savaré, Giovanni Corrao and Francesca leva</i> Optimal timing of bone-marrow transplant in myelodysplastic syndromes through multi-state modeling and microsimulation <i>Caterina Gregorio, Marta Spreafico and Francesca leva</i>	
	A fully Bayesian approach for sample size determination of Poisson clinical trials Susanna Gentile and Valeria Sambucini Compartmental models in epidemiology: Application on Smoking Habits in Tuscany Alessio Lachi, Cecilia Viscardi, Maria Chiara Malevolti, Giulia Carreras and Michela Baccini	
5:30-16:15	Plenary Session 4 - chair: Sabrina Giordano	B2 +
0.00 10.10	Historical Overview of Textbook Presentations of Statistical Science Alan Agresti (University of Florida)	Aula Magna
6:15-16:45	Coffee break	
16:45-18:00	Awards - chair: Domenico Piccolo - Young Scholars for Contributions to Statistical Disciplines - Best Ph.D. Thesis - Y-SIS, Best contribution presented at the conference SIS2022	E2
16:45-18:00	GROUP Meeting - SVQS - On the ANVUR system for Self-evaluation, Periodic evaluation and Accreditation (AVA) coordinator: Maurizio Carpita - coordinator SVQS-AVA: Salvatore Ingrassia	Magna
8:00-19:15	SIS Assembly	A2
21:00	Social Dinner	

Friday, 24 June

	Parallel Solicited Sessions 3 SOL10 - Data Science for Functional and Complex Data - chair: Simone Vantini	A2
0.00 10.10	A parsimonious approach to representing functional <i>Enea G. Bongiorno and Aldo Goia</i> Functional Regression Models with Interpretable Sparse Structure <i>Mauro Bernardi and Marco</i> <i>Stefanucci</i>	~~
	COVID-19 in Italy: characterizing the shapes of epidemic waves through Functional Data Analysis Marzia A. Cremona, Tobia Boschi, Jacopo Di Iorio, Lorenzo Testa and Francesca Chiaromonte Mixed-effects high-dimensional multivariate regression via group-lasso regularization Francesca leva, Andrea Cappozzo and Giovanni Fiorito	
9:00-10:1	SOL11 - The integration of immigrants in Italy: a multidimensional perspective <i>chair</i> : Raffaele Guetto	E2
	Albanian, Romanian and Italian women's fertility intentions: a comparative perspective among migrants, stayers and natives <i>Thais García-Pereiro and Anna Paterno</i> Does self-employment in the origin-country affect self-employment after migration? Evidence from Italy	
	and Spain <i>Floriane Bolazzi and Ivana Fellini</i> The impact of integration on immigrants' health behaviours in Italy <i>Giovanni Minchio, Raffaella</i> <i>Rusciani and Teresa Spadea</i> Migration, gender, and the distribution of paid and unpaid labour. Preliminary perspectives on foreign	
	couples in Italy Rocco Molinari, Agnese Vitali and Ester Gallo	
9:00-10:1	SOL12 - Sampling techniques for big data analysis - <i>chair</i> : Daniela Marella	F2
	Non-probability samples and big data: how to use them? <i>Pier Luigi Conti</i> Combining Big Data with probability survey data: a comparison of methodologies for estimation from non-probability surveys <i>Maria Del Mar Rueda, Ramon Ferri-García and Luis Castro-Martín</i> A Bayesian approach for combining probability and non-probability samples surveys <i>Silvia</i> <i>Biffignandi, Camilla Salvatore, Joseph Sakshaug, Bella Struminskaya and Arkadiousz Wisniowski</i> Big data and Official Statistics: some evidences <i>Paolo Righi, Natalia Golini and Gianpiero Bianchi</i>	
9:00-10:1	SOL13 - The analysis of students performance and behaviour based on large databases - <i>chair</i> : Giancarlo Ragozini	Magn
	Students enrolled in STEM discipline in Italy: patterns of retention, dropout and switch Valentina Tocchioni, Carla Galluccio, Maria Francesca Morabito and Alessandra Petrucci Estimating peers effect in university students' dropout decisions Mariano Porcu, Isabella Sulis and Cristian Usala	
	The routes of Southern Italy University students: an explorative analysis <i>Gabriele Ruiu and Vincenzo Giuseppe Genova</i> A new bipartite matching approach for record linkage: the case of two big Italian databases <i>Martina Vittorietti, Andrea Priulla, Vincenzo Giuseppe Genova, Giovanni Boscaino and Ornella Giambalvo</i>	
9:00-10:0	Parallel Contributed Sessions 5	1
9:00-10:0	CON21 - Covid-19 Assessment and Evaluation 2 - <i>chair</i> : Giulia Cavrini	C2
	We are in the same storm but not in the same boat: Impact of COVID-19 on UK households Demetrio Panarello and Giorgio Tassinari	
	A network approach to investigate learning experiences and social support in higher education <i>laria</i> <i>Primerano, Maria Carmela Catone, Giuseppe Giordano and Maria Prosperina Vitale</i> Physical and cultural activity, internet use and anxiety of Italian university students during the pandemic <i>Giovanni Busetta, Maria Gabriella Campolo and Demetrio Panarello</i>	
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9:00-10:00	CON22 - Bayesian modelling and inference 4 - <i>chair</i> : Lenoardo Egidi	D2
	Bayesian functional mixed effects model for sports data Patric Dolmeta, Raffaele Argiento and Silvia Montagna	
	Bayesian Optimization with Machine Learning for Big Data Applications in the Cloud Bruno Guindani, Danilo Ardagna and Alessandra Guglielmi	
	Linear models with assumptions-free residuals: a Bayesian Nonparametric approach Filippo Ascolani, Antonio Lijoi and Igor Prunster	
	Confidence distributions and fusion inference for intractable likelihoods Elena Bortolato and Laura Ventura	
	Wasserstein distance and applications to Bayesian nonparametrics Marta Catalano, Hugo Lavenant, Antonio Lijoi and Igor Prunster	
9:00-10:00	CON23 - Network Analysis and community detection - chair: Elvira Romano	C3
	Community detection in networks: a heuristic version of Girvan Newman algorithm <i>Ilaria Bombelli and Lorenzo Di Rocco</i>	
	Geographically weighted regression for spatial network data: an application to traffic volumes estimation Andrea Gilardi, Riccardo Borgoni and Jorge Mateu	
	Asymmetric Spectral Clustering: a comparison between symmetrizations Cinzia Di Nuzzo and Donatella Vicari	
	Community detection of seismic point processes Valeria Policastro, Nicoletta D'Angelo and Giada Adelfio	
	An Explorative analysis of Different Distance Metrics to Compare Unweighted Undirected Networks Anna Simonetto, Matteo Ventura and Gianni Gilioli	
10:15-11:15	Parallel Contributed Sessions 6	
10:15-11:15	CON24 - Gender, attitudes and family ties - <i>chair</i> : Rocco Molinari	D2
	Parents of a disabled child in Italy: less healthy but more civically engaged <i>Nicoletta Balbo and Danilo Bolano</i>	
	Searching the nexus between women's empowerment and female genital cutting (FGC) <i>Patrizia Farina, Liva Ortensi, Thomas Pettinato and Enrico Ripamonti</i>	
	Social stratification, gender, and attitudes towards voluntary childlessness in Europe: A double machine learning approach Danilo Bolano and Francesco C. Billari	
	Integrating structuralism and diffusionism to explain the new Italian emigration <i>Francesca Bitonti</i> On the effects of rooted family ties in business networks: The South of Italy in the 19th century <i>Roberto Rondinelli, Giancarlo Ragozini and Maria Carmela Schisani</i>	
10:15-11:15	CON25 - Methods and Applications in Clustering - chair: Carla Rampichini	A2
	A semi-supervised clustering method to extract information from the electronic Word Of Mouth <i>Giulia Contu, Luca Frigau, Maurizio Romano and Marco Ortu</i>	
	Spectral approach for clustering three-way data <i>Cinzia Di Nuzzo and Salvatore Ingrassia</i> Double clustering with a matrix-variate regression model: finding groups of athletes and disciplines in decathlon's data <i>Mattia Stival, Mauro Bernardi, Manuela Cattelan and Petros Dellaportas</i> Classification of the population dynamics <i>Federico Bacchi and Laura Neri</i>	
	Locating γ-Ray Sources on the Celestial Sphere via Modal Clustering <i>Anna Montin, Alessandra R.</i> Brazzale and Giovanna Menardi	
10:15-11:15	CON26 - Sampling and Official Statistics - chair: Sara Franceschi	E2
	Fisher's Noncentral Hypergeometric Distribution for Population Size Estimation Veronica Ballerini and Brunero Liseo	
	Small area models for skew and kurtotic distributions <i>Maria Rosaria Ferrante and Lorenzo Mori</i> The use of remotely sensed data in sampling designs for forest monitoring <i>Chiara Bocci, Gherardo</i> <i>Chirici, Giovanni D'Amico, Saverio Francini and Emilia Rocco</i>	
	Analyzing different causes of one–inflation in capture recapture models for criminal populations Davide Di Cecco, Andrea Tancredi and Tiziana Tuoto	
	Administrative database and official statistics: an IT and statistical procedure <i>Caterina Marini and Vittorio Nicolardi</i>	

	CON27 - Spatial modeling and Analyses - <i>chair</i> : Marzia Marcheselli	F2
	Spatial statistics analysis using microdata: an application at agricultural sector Daniela Fusco, Maria	
	Antonietta Liguori, Valerio Moretti and Francesco Giovanni Truglia	
	Bayesian spatial modeling of extreme precipitation Federica Stolf	
	A proposal to adjust local Moran's I for measuring residential segregation Antonio De Falco and	
	Antonio Irpino	
	Accurate directional inference for gaussian graphical models Claudia Di Caterina, Nancy Reid and	
	Nicola Sartori	
	Depopulation and population ageing in italian territories Cecilia Reynaud and Sara Miccoli	
0:15-11:15	CON28 - Advances in Classification - <i>chair</i> : Mariateresa Ciommi	C3
	Measures of interrater agreement based on the standard deviation Giuseppe Bove	
	A Comparison of accuracy measures for Classification tasks Amalia Vanacore and Maria Sole	
	Pellegrino	
	Iterative Threshold-based Naive Bayes Classifier: an efficient Tb-NB improvement Maurizio Romano,	
	Gianpaolo Zammarchi and Giulia Contu	
	Reprogramming FairGANs with Variational Auto-Encoders: A New Transfer Learning Model Beatrice	
0.45 44.45	Nobile, Gabriele Santin, Bruno Lepri and Pierpaolo Brutti CON29 - Robust statistics - chair: Paolo Giudici	00
0:15-11:15		C2
	Combinatorial Analysis of Factorial Designs with Ordered Factors Roberto Fontana and Fabio Rapallo	
	Robustifying the Rasch model with the forward search Anna Comotti and Francesca Greselin	
	A novel estimation procedure for robust CP model fitting Valentin Todorov, Violetta Simonacci,	
	Michele Gallo and Nikolay Trendafilov	
	A robust approach for functional ANOVA with application to additive manufacturing Fabio Centofanti,	
	Bianca Maria Colosimo, Marco Luigi Grasso, Alessandra Menafoglio, Biagio Palumbo and Simone	
	Vantini	
	IModeling unconditional M-quantiles in a regression tramework. Luca Merio, Lea Petrella and Nicola	
	Modeling unconditional M-quantiles in a regression framework Luca Merlo, Lea Petrella and Nicola	
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0:15-11:15	Salvati CON30 - Model-based clustering - <i>chair</i> : Gabriella Campolo	Magn
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11:15-11:45	Salvati CON30 - Model-based clustering - chair: Gabriella Campolo Bayesian mixtures of semi-Markov models Rosario Barone and Andrea Tancredi Specification of informative priors for capture-recapture finite mixture models Pierfrancesco Alaimo Di Loro, Gianmarco Caruso, Marco Mingione, Giovanna Jona Lasinio and Luca Tardella Clustering multivariate categorical data: a graphical model-based approach Francesco Rettore, Michele Russo, Luca Zerman and Federico Castelletti The Gaussian mixture model-based clustering for the comparative analysis of the Healthcare Digitalization Index in the Italian local health authorities Margaret Antonicelli, Michele Rubino and Filomena Maggino Local Spatio-Temporal Log-Gaussian Cox Processes for seismic data analysis Nicoletta D'Angelo, Giada Adelfio and Jorge Mateu Coffee break Parallel Specialized Sessions 4 SPE13 - Statistical methods and models for Sports Analytics - chair: Marica Manisera The 'hot shoe' in soccer penalty shootouts Andreas Groll and Marius Otting Otting	
1:15-11:45 1:45-13:15	Salvati CON30 - Model-based clustering - chair: Gabriella Campolo Bayesian mixtures of semi-Markov models Rosario Barone and Andrea Tancredi Specification of informative priors for capture-recapture finite mixture models Pierfrancesco Alaimo Di Loro, Gianmarco Caruso, Marco Mingione, Giovanna Jona Lasinio and Luca Tardella Clustering multivariate categorical data: a graphical model-based approach Francesco Rettore, Michele Russo, Luca Zerman and Federico Castelletti The Gaussian mixture model-based clustering for the comparative analysis of the Healthcare Digitalization Index in the Italian local health authorities Margaret Antonicelli, Michele Rubino and Filomena Maggino Local Spatio-Temporal Log-Gaussian Cox Processes for seismic data analysis Nicoletta D'Angelo, Giada Adelfio and Jorge Mateu Coffee break Parallel Specialized Sessions 4 SPE13 - Statistical methods and models for Sports Analytics - chair: Marica Manisera The 'hot shoe' in soccer penalty shootouts Andreas Groll and Marius Otting G-RAPM: revisiting player contributions in regularized adjusted plus-minus models forbasketball	
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11:45-13:15	SPE14 - Integrating available Data Sources for Official Statistics - chair: Elena Grimaccia	C2
	The Use of Administrative Data for the Estimation of Italian Usually Resident Population Marco	
	Caputi, Giampaolo De Matteis, Gerardo Gallo and Donatella Zindato	
	Statistical Architecture for Register Based Population Size Estimation: A Proposal Fabrizio Solari,	
	Antonella Bernardini, Angela Chieppa and Nicoletta Cibella	
	Robust approaches to dealing with linkage error when analysing survey data Raymond Chambers	
	discussant: Monica Pratesi	
11:45-13:15	SPE15 - New frontiers for the analysis of the territorial economic phenomena	Magna
	chair: Rosalia Castellano	
	An empirical tool to classify industries by regional concentration and spatial polarization Diego	
	Giuliani, Maria Michela Dickson, Flavio Santi and Giuseppe Espa	
	Comparing non-compensatory composite indicators: a case study based on SDG for Mediterranean	
	countries Francesca Mariani, Mariateresa Ciommi, Maria Cristina Recchioni, Giuseppe Ricciardo	
	Lamonica and Francesco Maria Chelli	
	Evaluating the determinants of innovation from a spatio-temporal perspective. The GWPR approach	
	Gaetano Musella, Giorgia Rivieccio and Emma Bruno discussant: Luca Salvati	
44.45 40.45		DO
11:45-13:15	SPE16 - Dimension Reduction for complex data - <i>chair</i> : Rosaria Lombardo	D2
	Discrimination and clustering via principal components Nikolay Trendafilov and Violetta Simonacci	
	Exploratory graph analysis for configural invariance assessment Sara Fontanella, Alex Cucco and	
	<i>Nicola Pronello</i> Penalized likelihood factor analysis <i>Kei Hirose</i>	
	discussant: Valentin Todorov	
44.45 42.45		E2
11:45-13:15	Guest Session - SIFS - Italian Society of Statistical Physics	EZ
	chair: Eugenio Lippiello Statiatical Diversion in Italy, Reporte Livi (Dresident of the SIES)	
	Statistical Physics in Italy Roberto Livi (President of the SIFS) Statistical physics of networks Guido Caldarelli	
	Modelling of financial time series Fabrizio Lillo	
11-45-13-15	Meeting among Coordinators/Responsibles of Bachelor's or Master's degree programs in Statistics,	A2
	Demography and Data Science	~~~
13:15-14:15	Lunch	
14:15-15:15	Parallel Contributed Sessions 7	
14:15-15:15	CON31 - Student performance evaluation - chair: Giulia Rivellini	D2
	Rasch model versus Rasch Mixture model: strengthens and limits in identifying factors affecting	
	students' performance in mathematics Clelia Cascella	
	Does taking additional Maths classes improve university performance? Martina Vittorietti, Andrea	
	Priulla and Massimo Attanasio	
	University dropout and churn in italy: an analysis over time Barbara Barbieri, Mariano Porcu, Luisa	
	Salaris, Isabella Sulis, Nicola Tedesco and Cristian Usala	
	The ANOGI for detecting the impact of education and employment on income inequality <i>Elena</i>	
	Fabrizi, Alessio Guandalini and Alessandra Spagnoli	
	What causes juvenile crime? a case-control study Elena Dalla Chiara and Federico Perali	-
14:15-15:15	CON32 - Methods and Applications in Survival analysis - <i>chair</i> : Gaetano Musella	C2
	Family history in survival and disease development Maria Veronica Vinattieri and Marco Bonetti	
	Recursive partitioning for survival data Ambra Macis	
	Detecting survival patterns in a digital learning platform Marta Cannistrà, Mara Soncin, Federico Frattini	
	An extension of proper Bayesian bootstrap ensemble tree models to survival analysis Elena Ballante	
	Modelling time to university dropout by means of time-dependent frailty COX PH models Mirko	
	Giovio, Paola Mussida and Chiara Masci	

14:15-15:15	CON33 - Text mining - <i>chair</i> : Michengelo Misuraca	E2
	Topics & metaverse: an explorative analysis Emma Zavarrone, Alessia Forciniti and Emanuele Parisi	
	Applying Topic Models to bibliographic search: some results in basketball domain Manlio Migliorati and Eugenio Brentari	
	Exploiting Text Mining and Network Analysis for future scenarios development: an application on remote working <i>Yuri Calleo, Simone Di Zio and Vanessa Russo</i>	
	Emotion recognition in Italian political language to predict positionings and crises government <i>Alessia Forciniti and Emma Zavarrone</i>	
	What does your self-description reveal about you? Riccardo Ricciardi	
	CON34 - Variable selection and complete matrix approaches - <i>chair</i> : Michele Gallo	F2
	A Statistical Approach for the Completion of Input-Output Tables Rodolfo Metulini, Giorgio Gnecco, Francesco Biancalani and Massimo Riccaboni	
	On multivariate records over sequences of random vectors with Marshall-Olkin dependence of components Amir Khorrami Chokami and Simone A. Padoan	
	The joint censored Gaussian graphical lasso model <i>Gianluca Sottile, Luigi Augugliaro and Veronica Vinciotti</i>	
	Variable selection with unbiased estimation: the cdf penalty Daniele Cuntrera, Vito M.R. Muggeo and Luigi Augugliaro	
	Automatic variable selection for MIDAS regressions: an application Consuelo Rubina Nava, Luigi Riso and Maria Grazia Zoia	
14:15-15:15	CON35 - Distribution Theory and Estimation - chair: Serena Arima	C3
	A general framework for unit distributions Francesca Condino, Filippo Domma and Bozidar V. Popovic	
	Prediction intervals based on multiplicative model combinations Valentina Mameli and Paolo Vidoni	
	Some advances on pairwise likelihood estimation in ordinal data latent variable models Giuseppe Alfonzetti and Ruggero Bellio	
	The logratio student t distribution Gianna Serafina Monti and Glòria Mateu-Figueras	
	CON36 - Functional Data Analysis - <i>chair</i> : Marco Stefanucci	Magna
	Nonparametric functional prediction bands: theory with an application to bike sharing mobility demand in the city of Milan Jacopo Diquigiovanni, Matteo Fontana and Simone Vantini	
	An R package for the statistical process monitoring of functional data Christian Capezza, Fabio Centofanti, Antonio Lepore, Alessandra Menafoglio, Biagio Palumbo and Simone Vantini	
	Trend filtering for functional regression Federico Ferraccioli, Alessandro Casa and Marco Stefanucci	
	Conformal prediction for spatio-functional regression models Andrea Diana, Elvira Romano and Antonio Irpino	
15:15-16:30	Parallel Solicited Sessions 4	
15:15-16:30	SOL14 - Statistical Methods for Science Mapping - chair: Massimo Aria	Magna
	A word embedding strategy to study the thematic evolution of ageing and healthcare expenditure growth literature <i>Milena Lopreite, Michelangelo Misuraca and Michelangelo Puliga</i> An automatic approach for bibliographical co-words networks labelling <i>Manuel J. Cobo and Maria</i>	
	Spano Characterising research areas in the field of Al Alessandra Belfiore, Angelo Salatino and Francesco Osborne	
	Mapping evolutionary paths of a society: the longitudinal analysis of the Italian Economia Aziendale Corrado Cuccurullo, Luca D'Aniello and Michele Pizzo	

15:15-16:30	SOL15 - Methodological Challenges in Policy Evaluation - chair: Marusca De Castris	C2
	Bayesian principal stratification with longitudinal data and truncation by death Giulio Grossi, Marco	
	Mariani, Alessandra Mattei and Fabrizia Mealli	
	Optimal Policy Learning: implementing statistical learning to maximize policy impact Giovanni Cerulli,	
	Federico Brogi, Fabrizio De Fausti and Barbara Guardabascio	
	Place-Based Policies and the location of economic activity: Evidence from the Italian Strategy for Inner	
	Areas Giuliano Resce, Gianluca Monturano and Marco Ventura Is the EIB Delivering On Economic Convergence? Carlo D'Ippoliti and Roberta Di Stefano	
15:15-16:30	SOL16 - Modelling complex structures in ecological data - <i>chair</i> : Giovanna Jona Lasinio	F2
	New insights on the ecology and conservation of Mediterranean sharks through the development of	
	Citizen Science networks and new modeling approaches Stefano Moro, Francesco Ferretti and Francesco Colloca	
	An overdispersed Poisson model for forest fires occurrences in Southern Italian municipalities	
	Crescenza Calculli and Serena Arima	
	Assessment of the impact of anthropic pressures on the Giglio island meadow of Posidonia oceanica	
	Gianluca Mastrantonio, Daniele Ventura, Gianluca Mancini and Giandomenico Ardizzone	
	Accounting for observation processes in spatio-temporal ecological data Janine Illian	
15.15-16.30	SOL17 - Statistics and indicators for the recovery and resilience plan - <i>chair</i> : Alessandra Righi	D2
10.10 10.00	ooen - otatistics and indicators for the recovery and resilience plan - onair. Alessandra Right	52
	The prominence of statistical information for the monitoring and effective implementation of the NRRP	
	Andrea Petrella	
	Estimate the impact of the PNRR using the macroeconometric model for Italy (MeMo-It) Fabio	
	Bacchini, Davide Zurlo, Roberto Golinelli	
	Big Data Analytics in mobile cellular networks as enabler for innovative statistics to evaluate the effects	
	of Recovery and Resilience Plan actions Andrea Zaramella, Dario Di Sorte, Denis Cappellari and	
	Bruno Zamengo	
	Measuring the digital transition within the PA: proposals comparison Susanna Traversa and Enrico	
	Ivaldi	
15:15-16:15	Parallel Contributed Sessions 8	
15:15-16:15	CON37 - Tourism and sport studies - <i>chair</i> : Pasquale Sarnacchiaro	C3
	Assessing satisfaction of tourists visiting Italian museums: evidence from the eWOM Daria Mendola	
	and Valentina Oddo	
	COVID-19 pandemic and tourism demand: a comparison between Spain and Italy <i>Caterina Sciortino</i> ,	
	Ludovica Venturella and Stefano De Cantis	
	A compositional analysis of tourism in Europe Francesco Porro	
	Improving administrative data quality on tourism using Big Data Antonella Bianchino, Armando	
	d'Aniello and Daniela Fusco	
15:15-16:15	CON38 - Geographical variations of socio-demographic issues - <i>chair</i> : Ida Camminatiello	C2
	Elderly HCE and health care need: comparing spatially unexplained levels Irene Torrini, Laura Rizzi	
	and Luca Grassetti	
	Measuring sustainable development at the regional level. The case of Italy Marianna Bartiromo and	
	Enrico Ivaldi	
	Socio-economic deprivation and COVID-19 infection: a Bayesian spatial modelling approach Antonino	
	Abbruzzo, Andrea Mattaliano, Alessandro Arrigo, Salvatore Scondotto and Mauro Ferrante	
	Comparing local structures of spatio-temporal point processes on linear networks <i>Nicoletta D'Angelo, Giada Adelfio and Jorge Mateu</i>	

	Parallel Contributed Sessions 9	
16:30-17:30	CON39 - Applications in Economics - <i>chair</i> : Paolo Mazzocchi	D2
	The measurement of economic security through relative indicators <i>Alessandro Gallo, Silvia Pacei and Maria Rosaria Ferrante</i>	
	A regional analysis of the efficiency by energy's producers in Italy <i>Gianna Greca, Giuseppe</i> <i>Cinquegrana and Giovanni Fosco</i>	
	On investigating social and financial aspects of Cardano Stefano Vacca, Marco Ortu, Gianpaolo Zammarchi and Giuseppe Destefanis	
	Combined permutation test on the effect of age of micro enterprises on the propensity to Circular Economy Stefano Bonnini and Michela Borghesi	
	Comparison of Two Different Approaches to Measure Economic Access to Food and Insecurity: an Application to Mexican data Stefano Marchetti, Luca Secondi and Adrian Vargas-Lopez	
16.30-17.30	CON40 - Image analysis and visual methods - <i>chair</i> : Antonio Irpino	E2
10.30-17.30	Visual and automated methods in digital microscopy to evaluate fungal colonisation on plant roots	
	Ivan Sciascia, Andrea Crosino and Andrea Genre	
	From satellite images to road pavement type: an object-oriented classification approach Arianna	
	Burzacchi, Matteo Landrò and Simone Vantini	
	Valid inference for group analysis of functionally aligned fMRI images Angela Andreella, Riccardo De	
	Santis and Livio Finos	
	Topological persistence for astronomical image segmentation Riccardo Ceccaroni, Pierpaolo Brutti,	
	Marco Castellano, Adriano Fontana and Emiliano Merlin	
16:30-17:30	CON41 - Statistical assessment and empirical estimation - chair: Fabrizio Maturo	F2
	Confidence regions for optimal sensitivity and specificity of a diagnostic test Gianfranco Adimari, Duc-	
	Khanh To and Monica Chiogna	
	On the sensitiveness to the memory parameter in the network of tennis Alberto Arcagni, Vincenzo Candila and Rosanna Grassi	
	Two-part model with measurement error Maria Felice Arezzo, Serena Arima and Giuseppina Guagnano	
	Statistical assessment of practical significance Andrea Ongaro, Sonia Migliorati and Enrico Ripamonti	
16:30-17:30	CON42 - Autoregressive and mixed effects models - chair: Antonio Stefano Gattone	D3
	Asymptotic Properties of the Nonlinear Least Squares Estimator in HE-HAR Models Emilija	
	Dzuverovic and Edoardo Otranto	
	A note on testing for threshold non-linearity in presence of heteroskedasticity in time series Simone Giannerini and Greta Goracci	
	The conditional autoregressive Whart-G model Massimiliano Caporin and Marco Girardi	
	Semi-parametric generalized linear mixed effects models for binary response for the analysis of heart failure hospitalizations Alessandra Ragni, Chiara Masci, Francesca leva and Anna Maria Paganoni	
16:30-17:30	CON43 - Issues in Data science - <i>chair</i> : Antonio Balzanella	C3
	etree: Classification and Regression With Structured and Mixed-Type Data in R Riccardo Giubilei,	
	Tullia Padellini and Pierpaolo Brutti	
	Deep Learning framework for ungrouping coarsely aggregated vital rates Andrea Nigri	
	Inside the metaverse: analysis of the state of the art and development of a new usage approach based	
	on quality and ethics Vito Santarcangelo, Emilio Massa, Saverio Gianluca Crisafulli, Antonio Ruoto, Angelo Lamacchia, Alessandro D'Alcantara, Alessandro Verderame and Massimiliano Giacalone	
17:30	CLOSING CEREMONY	A2