




SIS2016

48TH SCIENTIFIC MEETING OF THE ITALIAN STATISTICAL SOCIETY
Università degli Studi di Salerno
June 8th – June 10th, 2016

Conference Organization and Program

Conference rooms location. All conference activities will take place at the University of Salerno campus located in Fisciano (SA). Sessions are hosted in three buildings near “Piazza del Sapere” which is the heart of the campus. Buildings are denoted by their campus code (appearing on their front). There will be a total of nine rooms labeled with the same color within the same building as denoted below

 Building Aula Magna	Room: Aula Magna “V. Buonocore”
 Building D1 (ground and 1st floor)	Rooms: A, B, D and Sala Studio
 Building D2 (1st floor)	Rooms: “G. De Rosa”, “V. Foa”, SP/1 and SP/2

Registration Desk. The desk is located at the foyer of Aula Magna “V. Buonocore”. The registration desk assists participants and it is the main source of information. Conference registration will take place every day starting from 8:30 a.m.

Organization of sessions

Plenary Sessions	5’ Chair, 30’ talk, 15’ discussant, 10’ floor discussion
Specialized Sessions [SPE]	5’ Chair, 20’ talk, 25’ discussant and floor discussion
Solicited Sessions [SOL]	20’ talk, 15’ discussion
Contributed Paper Sessions [CON]	15’ talk, 15’ discussion
Speed Poster Session [POS]	3’ poster presentation

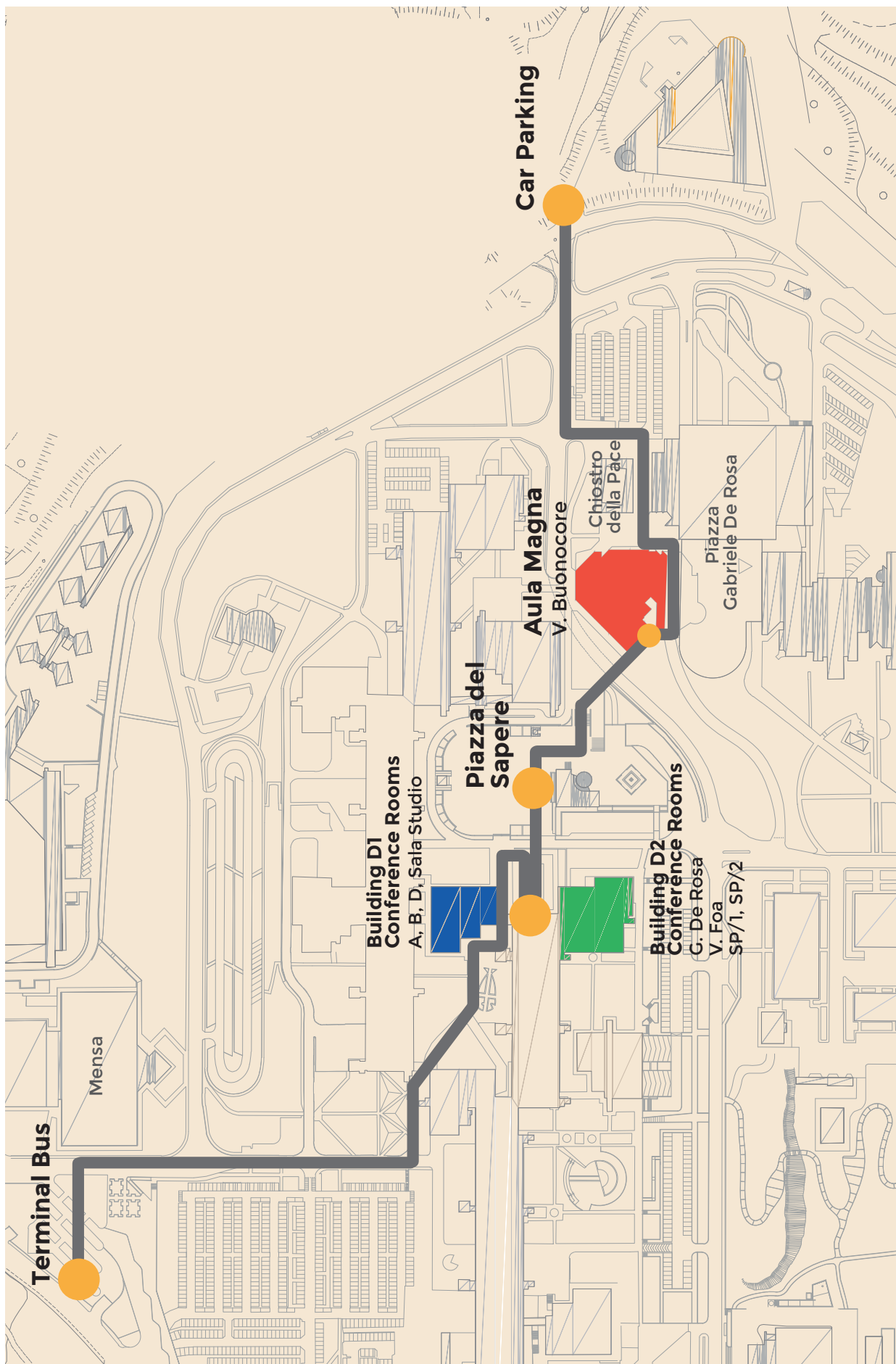
Instructions for presentations and posters. The lecture rooms are equipped with a PC, remote pointers, and a computer projector. Both Authors and Chairs should reach the room at least ten minutes before the scheduled time to set up files on the computers and to check the equipment. Possible file formats for presentation are PDF (Acrobat) and PPT (Powerpoint). Contributions are presented in the order they are listed in the programme. The poster session will take place at the foyer of Aula Magna. The authors have to be present during the time assigned for the session. Authors are responsible for placing the posters on panel displays and for removing them. The maximum size of the poster is A0 portrait (841×1189mm).

SIS2016 App and network connections. Conference scheduling is aided by a dedicated App for both Android and iOS systems. The SIS2016 App can be downloaded from AppStore and Google Play, and it serves as an interactive guide with real time features. The campus is served by the eduroam roaming access service. There is also a dedicated campus WiFi network for conference participants. Instructions to connect to the WiFi are given at the main desk.

Coffee breaks and lunches. Coffee breaks and buffet lunches will take place at the Sala Buffet of the Aula Magna building. Participants must have their conference badge in order to attend the coffee breaks. Lunches are not included in the conference fees, and tickets are available at the registration desk.

Transportation services. There is a dedicated Bus service operating from Salerno to Fisciano in the early morning, and from Fisciano to Salerno after the last session every day. There is also a public transportation service. Schedule and relevant information are given through the conference website and the SIS2016 App.

Campus map



JUNE 8TH, 2016

08:30  **Registration Opening** (Foyer Aula Magna)

09:30  **Conference Opening** (Room: Aula Magna)

10:00  **Plenary A** **Emanuele Baldacci:** *Financial Crises and their Impacts: Data Gaps and Innovation in Statistical Production* (Room: Aula Magna)
Chair: P. Giudici – Discussant: A. Viviani

11:00 **COFFEE BREAK**

11:30 **PARALLEL SPECIALIZED SESSIONS**

SPE-01 **Inference, sampling and survey design** (Room: V.Foa)
Chair: M. G. Ranalli – Discussant: E. Carfagna
P. Conti; F. Andreis; D. Marella; F. Mecatti: *Resampling from finite populations under complex designs: the pseudo-population approach*
P. Righi; P. D. Falorsi: *A joint use of model based and design based frameworks for defining optimal sampling designs*
A. Ruiz-Gazen; J. Beaumont; D. Haziza: *A unified approach for robustness in survey sampling*

SPE-02 **Multivariate models for risk assessment** (Room: SP/2)
Chair: M. Brogi – Discussant: G. Gallo
M. Billio; R. Casarin; M. Costola; M. Guindani: *A Bayesian nonparametric approach to macroeconomic risk*
P. Cerchiello; P. Giudici; G. Nicola: *Bank risk contagion: an analysis through big data*
L. De Angelis; C. Viroli: *A Markov-switching regression model with non-Gaussian innovations for systemic risk measurement*

SPE-03 **Bayesian nonparametrics** (Room: SP/1)
Chair: B. Nipoti – Discussant: P. Brutti
D. Durante; D. B. Dunson: *Bayesian Nonparametric Modeling of Dynamic International Relations*
A. Guglielmi; G. Paulon; M. De Iorio: *Bayesian autoregressive semi-parametric models for gap times of recurrent events*
A. Rodriguez; T. Xifara: *Restricted Nonparametric Mixtures models for Disease Clustering*

SPE-04 **Statistical methods for the analysis of gene-environment interaction in the study of complex pathologies** (Room: G. De Rosa)
Chair: C. Di Serio – Discussant: A. Decarli
C. Angelini: *An introduction to next generation sequencing for studying omic-environment interactions*
L. Calciano; L. Portas; S. Accordini: *Statistical approaches for the evaluation of genetic associations in complex diseases: the heterogeneity of asthma phenotypes*
Y. Pankaj; S. Freitag-Wolf; A. Dempfle; W. Lieb; M. Krawczak: *Improved case-only approach to study genome-wide gene-environment interaction*

13:00 **LUNCH**

13:00 **Y-SIS** Young-Statisticians lunch seminar (Room: V. Foa)

14:15 **PARALLEL SOLICITED SESSIONS**

SOL-01 **Subjective wellbeing and demographic events over the life course** (Room: V. Foa)
Chair: B. Arpino

G. Fuochi; P. Conzo; A. Aassve; L. Mencarini: *Cultural and institutional drivers of basic psychological needs satisfaction*

L. Mencarini; A. Aassve; F. Luppi: *Five reasons to be happy about childbearing*

B. Nowok: *Migration motivations and migrants' satisfaction in the life course: A sequence analysis of geographical mobility trajectories in the United Kingdom*

A. Pirralha; H. Dobewall: *Does becoming a parent change the meaning of happiness and life satisfaction? Evidence from the European Social Survey*

SOL-02 **Statistics for equitable and sustainable development** (Room: SP/1)
Chair: M. Mazziotta

E. di Bella; B. Cavalletti; M. Corsi: *Wellbeing and sustainable development: a multi-indicator approach to evaluate urban waste management systems*

C. Giusti; S. Marchetti; L. Faustini; L. Porciani: *Small Area Estimation for Local Welfare Indicators in Italy*

T. Laureti; L. Secondi: *Does socio-economic variables influence the Italians' adherence towards a sustainable diet?*

F. Riccardini; M. Bachelet; F. Maggino: *Sustainability of wellbeing: an analysis of resilience and vulnerability through subjective indicators*

SOL-03 **New approaches to treat undercoverage and nonresponse** (Room: SP/2)
Chair: F. Mecatti

F. Andreis: *Methodological perspectives for surveying rare and clustered population: towards a sequentially adaptive approach*

E. Furfaro: *Dealing with under-coverage bias via Dual/Multiple Frame designs: a simulation study for telephone surveys*

D. Haziza; É. Lesage: *Weight adjustment procedures for the treatment of unit nonresponse in surveys*

E. Kabzinska; Y. G. Berger: *Empirical likelihood multiplicity adjusted estimator for multiple frame surveys*

SOL-04 **Statistical models and methods for network data** (Room: G. De Rosa)
Chair: M. R. D'Esposito

M. Cugmas; A. Ferligoj: *Measuring stability of co-authorship structures in time*

J. Koskinen; T. Mueller; T. Grund: *A dynamic discrete-choice model for movement flows*

G. Ragozini; D. De Stefano; M. R. D'Esposito: *Prototyping and Comparing Networks through Archetypal Analysis*

S. Zaccarin; A. Caloffi; D. De Stefano; F. Rossi: *Modeling network dynamics: evidence from policy-driven innovation networks*

SOL-05**Recent developments in computational statistics** (Room: A)

Chair: B. Liseo

R. Argiento: *A conditional algorithm for Bayesian finite mixture models via normalized point process***S. Favaro; M. Battiston; Y. Teh:** *Thompson sampling for species discovery***A. Mira; S. Peluso; P. Muliere; F. Pallotti:** *An application of Reinforced Urn Process to advice network data***N. Sartori; R. Bellio; I. Kosmidis; A. Salvan:** *Bootstrap prepivoting in the presence of many nuisance parameters*

SOL-06**Statisticians meet naturalists: issues on ecological and environmental statistics** (Room: B)

Chair: L. Fattorini

F. Ferretti; A. Sforzi: *Estimating the abundance of wildlife ungulate populations in Mediterranean areas: methods, problems and findings***M. Ferretti:** *The monitoring of forests in Europe: methods, problems and proposals***D. Rocchini; L. Delucchi; G. Bacaro:** *The power of generalized entropy for biodiversity assessment by remote sensing: an open source approach*

SPE-05**Nonlinear time series** (Room: Aula Magna)

Chair: S. Giannerini – Discussant: G. Gallo

M. Niglio; F. Giordano; C. D. Vitale: *Probabilistic properties of Self Exciting Threshold Autoregressive processes***T. Proietti; A. Giovannelli:** *Optimal prediction of stochastic trends***H. Tong; H. Hsu; C. Ing:** *On model selection from a finite family of possibly misspecified models*

15:45 COFFEE BREAK

16:15 PARALLEL CONTRIBUTED SESSIONS

CON-01**Bayesian statistics (1)** (Room: A)

Chair: B. Nipoti

F. Giummolè; V. Marnati; L. Ventura: *Reference priors based on composite likelihoods***B. Nipoti; J. Arbel; S. Favaro; Y. W. Teh:** *On Bayesian nonparametric inference for discovery probabilities***R. Pappadà; L. Egidi; F. Pauli; N. Torelli:** *Relabelling in Bayesian mixture models by pivotal units***C. Scricciolo:** *On Deconvolution of Dirichlet-Laplace Mixtures*

CON-02**Statistical modeling** (Room: B)

Chair: P. M. Kroonenberg

- P. Faroughi; N. Ismail:** *A New Bivariate Regression Model for Count Data with Excess Zeros*
- B. Francis; V. Hoti:** *Dynamic latent class profiles in cross-sectional surveys: some preliminary results*
- P. M. Kroonenberg:** *The use of deviance plots for non-nested model selection in loglinear models, structural equations, three-mode analysis*
- A. Lucadamo; L. Greco:** *Variable selection through Multinomial LASSO for PCMR*
- O. Paccagnella; S. Pavan; M. Iannario:** *Integrating CUB Models and Vignette Approaches*

CON-03**Demographics and social statistics (1)** (Room: D)

Chair: A. Di Pino

- D. Bellani; G. Esping-Andersen; L. Nedoluzhko:** *Gender egalitarianism, education and life-long singlehood: A multilevel analysis*
- L. Colangelo; P. Mancini:** *Fear of Crime and Victimization among Sexual Harassed Women: Evidence from Italy*
- S. De Cantis; M. Ferrante; A. Parroco; N. Shoval:** *A survival approach for the analysis of cruise passengers' behavior at the destination*
- A. Di Pino; M. Campolo:** *Retirement of the Male Partner and the Housework Division in the Italian Couples: Estimation of the Causal Effects*
- F. Lariccia; A. Pinnelli:** *Many women start, but few continue: determinants of breastfeeding in Italy*

CON-04**Environmental statistics** (Room: Sala Studio)

Chair: F. Durante

- F. Bono; M. Giacomarra; R. Giaimo:** *Measuring sustainable economic development through a multidimensional Gini index*
- C. Calculli; B. Cafarelli; D. Cocchi; E. Pignotti:** *Modeling multi-site individual corals growth*
- F. Di Salvo; A. Plaia; M. Ruggieri:** *GAMs and functional kriging for air quality data*
- F. Durante:** *The Kendall distribution and multivariate risks*

CON-05**Health statistics** (Room: G. De Rosa)

Chair: G. E. Montanari

- E. di Bella; L. Leporatti; I. Krejci; S. Ardu:** *Dental care systems across Europe: the case of Switzerland*
 - F. Gasperoni; F. Ieva; G. Barbati:** *Multi-state models for hospitalizations of heart failure patients in Trieste*
 - F. Grossetti; F. Ieva; S. Scalvini; A. M. Paganoni:** *Multi-state Approach to Administrative Data on Patients affected by Chronic Heart Failure*
 - G. Montanari; S. Pandolfi:** *Evaluation of health care services through a latent Markov model with covariates*
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CON-06 Labor market statistics (Room: V. Foa)

Chair: G. Busetta

- A. Bianchi; S. Biffignandi:** *Multifactor Partitioning: an analysis of employment and firm size*
- G. Busetta; F. Fiorillo:** *Ugly Betty looks for a job. Will she ever find it in Italy?*
- G. Busetta; M. Campolo; D. Panarello:** *No country for foreigners: an analysis of hiring process in Italian labor market*
- F. Crippa; M. Zenga:** *Know your audience. Towards a partnership between employers and university.*
- I. Vannini; D. Rotolone; C. Di Stefano; A. P. Paliotta:** *Online Job Vacancies: a big data analysis*

CON-07 Robust statistics (Room: SP/1)

Chair: G. C. Porzio

- F. Greselin; L. García-Escudero; A. Mayo-Isacar; G. McLachlan:** *Robust estimation of mixtures of skew-normal distributions*
- M. Musio; A. F. Dawid:** *Renyi's Scoring Rules*
- A. Paganoni; F. Ieva:** *Robust classification of multivariate functional data*
- G. C. Porzio; T. Kirschstein; S. Liebscher; G. Pandolfo:** *A robust estimator for the mean direction of the von Mises-Fisher distribution*
- F. Palumbo; R. Romano:** *Robust Partial Possibilistic Regression Path Modeling*

CON-08 Sampling methods (Room: SP/2)

Chair: M. Ruggiero

- A. Ghiglietti:** *Adaptive Randomly Reinforced Urn design and its asymptotic properties*
- D. Marella; P. Vicard:** *PC algorithm from complex sample data*
- S. Missiroli; E. Carfagna:** *Optimal Adaptive Group Sequential Procedure for Finite Populations in the Presence of a Cost Function*
- E. Pelle; P. Perri:** *The Rao regression-type estimator in ranked set sampling*
- M. Ruggiero; P. De Blasi; S. Walker:** *Modelling stationary varying-size populations via Polya sampling*

17:45 PARALLEL SOLICITED SESSIONS

SOL-07 From survey data to new data sources and big data in official statistics (Room: G. De Rosa)

Chair: P. Righi

- G. Barcaroli; G. Bianchi; R. Bruni; A. Nurra:** *Machine learning and statistical inference: the case of Istat survey on ICT*
 - S. Falorsi; S. Loriga; A. Naccarato; A. Pierini:** *Forecasting Italian Youth Unemployment Rate Using Online Search Data*
 - B. Liseo; A. Tancredi:** *Bayesian nonparametric methods for record linkage*
 - T. Tuoto; L. Di Consiglio; D. Fusco:** *Exploring solutions for linking Big Data in Official Statistics*
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SOL-08**Symbolic data analysis methods and applications** (Room: V. Foa)

Chair: R. Verde

- E. Diday:** *Explanatory and discriminatory power of variables in Symbolic Data Analysis*
- M. Ferraro; P. Giordani:** *Fuzzy and possibilistic approach to clustering of imprecise data*
- L. Grassini; B. Bertaccini; G. Biagi; A. Giusti:** *Symbolic data analysis approach for monitoring the stability of monuments.*
- M. Ichino; K. Umbleja:** *Similarity and Dissimilarity Measures for Mixed Feature-type Symbolic Data*

SOL-09**Compositional analysis** (Room: SP/1)

Chair: V. Todorov

- L. Crosato; F. Lovisolo; B. Zavanella:** *Forecasting CPI weights through compositional VARIMA: an application to Italian data.*
- J. A. Martín-Fernández; M. Vives-Mestres; R. Kenett:** *Understanding association rules from a compositional data approach*
- A. Menafoglio; A. Guadagnini; P. Secchi:** *Object Oriented Geostatistical Simulation of Functional Compositions via Dimensionality Reduction in Bayes spaces*
- V. Simonacci; M. Di Palma; V. Todorov:** *Fitting CANDECOMP-PARAFAC model for compositional data: a combined SWATLD-ALS algorithm*

SOL-10**Sustainable development: theory, measures and applications** (Room: SP/2)

Chair: S. Rossetti

- F. Riccardini:** *Measuring sustainable development goals from now to 2030*
- F. Riccardini; D. De Rosa:** *How the nexus of food/water/energy can be seen with the perspective on well-being of people and the Italian BES framework*
- T. Rondinella; E. Grimaccia:** *An innovative methodology for the analysis of sustainability, inclusion and smartness of growth through Europe2020 indicators.*
- P. Ungaro; I. Mingo; V. Talucci:** *The Italian population behaviours toward environmental sustainability: a study from Istat surveys*

19:15 Welcome Aperitif

SOL-11

Detecting heterogeneity in ordinal data surveys (Room: G. De Rosa)

Chair: D. Piccolo

E. Di Nardo; R. Simone: *CUB models: a preliminary Fuzzy approach to heterogeneity*

S. Giordano; R. Colombi; A. Gottard; M. Iannario: *Modelling uncertainty in bivariate models for ordinal responses*

M. Manisera; P. Zuccolotto: *Treatment of "don't know" responses in rating data: effects on the heterogeneity of the CUB distribution*

F. Pennoni: *Modelling a multivariate hidden Markov process on survey data*

SOL-12

Active ageing: age management and lifelong learning strategies (Room: V. Foa)

Chair: A. De Rose

P. Cardone; M. Aversa; L. D'Agostino: *Age management in Italian companies. Findings of two Isfol surveys*

A. Lorenti: *Working after Retirement in Europe*

C. Polli; R. Angotti: *Older low-skilled workers and economic crisis in Italy*

G. Rivellini; F. Marcaletti; F. Racioppi: *Population ageing and human resources management. A chance for Applied Demography.*

SOL-13

Statistical models for evaluating policy impact (Room: SP/1)

Chair: D. Bondonio

M. Bia; F. Li; A. Mercatanti: *Evaluation of Training Programs by exploiting secondary outcomes in Principal Stratification frameworks: the case of Luxembourg.*

G. Cerulli; Y. Dongz; A. Lewbel; A. Poulsen: *Testing Stability of Regression Discontinuity Models*

R. P. Mamede; D. Cruz; T. Fernandes: *Counterfactual Impact Evaluation of Vocational Education in Portugal*

G. Pellegrini; M. De Castris: *Italian public guarantees to SME: the impact on regional growth*

SOL-14

Usage of geocoded micro data in the economic analysis (Room: SP/2)


Chair: G. Arbia

M. Dickson; D. Filippini: *Spatial sampling methods with locational errors*

D. Giuliani; S. Cozzi; G. Espa: *Spatial Micro-Econometrics Models with Locational Errors*

F. Santi; M. M. Dickson; D. Giuliani; D. Piacentino: *Three-Year Survival Probability of Italian Start-up Businesses in Healthcare Industry: an Empirical Investigation through Logistic Multilevel Modelling*

SOL-15	<p>Statistical models in functional data analysis (Room: A) Chair: E. Romano</p> <p>G. Adelfio; F. Di Salvo; M. Chiodi: <i>Space-time FPCA Algorithm for clustering of multidimensional curves</i></p> <p>C. Miller; R. O'Donnell; M. Gong; M. Scott: <i>Functional data analysis approaches for satellite remote sensing applications</i></p> <p>E. Romano; A. Balzanella; R. Verde: <i>Order statistics for spatially dependent functional data</i></p> <p>L. M. Sangalli; M. S. Bernardi; G. Mazza; J. O. Ramsay: <i>A penalized regression model for functional data with spatial dependence</i></p>
10:30 Plenary B	<p>David Dunson: <i>Probabilistic inference from big and complex data</i> (Room: Aula Magna) Chair: A. Canale – Discussant: P. C. Secchi</p>
11:30 COFFEE BREAK	
12:00	Poster speed session (Room: Aula Magna)
13:30 LUNCH	
POS	Poster Exhibition (Foyer Aula Magna)
14:30 SUS2	Stats Under the Stars 2 - Winners presentation (Room: Aula Magna)
14:45 PARALLEL SPECIALIZED SESSIONS	
SPE-06	<p>Spatial analyses in demography (Room: V. Foa) Chair: O. Casacchia – Discussant: A. Petrucci</p> <p>F. Heins; F. Benassi; F. Lipizzi; E. Paluzzi: <i>Measuring residential segregation with spatial indices: an appraisal and applications for the metropolitan area of Rome</i></p> <p>A. Mazza; G. Gabrielli; S. Strozza: <i>Immigrants' settlement patterns in the city of Naples</i></p> <p>L. Natale; A. Santacroce; F. G. Truglia: <i>Native Immigration and Pull Factor Evolution in Italy: a Spatial Approach</i></p>
SPE-07	<p>Recent developments in Volatility modeling (Room: G. De Rosa) Chair: G. Gallo – Discussant: P. Boswijk</p> <p>R. Casarin; M. Bernardi; B. Maillet; L. Petrella: <i>Dynamic Model Averaging for Quantile Regression</i></p> <p>A. Rahbek: <i>Testing volatility: consistency of bootstrap testing for a parameter on the boundary of the parameter space</i></p> <p>E. Ruiz; V. Czellar; X. Mao; H. Veiga: <i>Asymmetric Stochastic Volatility Models: Properties and Estimation</i></p>
SPE-08	<p>Advances in ordinal contingency table analysis (Room: SP/1) Chair: M. Carpita – Discussant: F. Palumbo</p> <p>L. D'Ambra; P. Amenta; A. D'Ambra: <i>Dimensionality reduction methods for contingency tables with ordinal variables</i></p> <p>R. Lombardo; P. Kroonenberg; E. Beh: <i>Modelling Trends in Ordered Three-Way Non-Symmetrical Correspondence Analysis</i></p> <p>M. Riani; S. Arsenis: <i>Using Collapsing and Multiple Comparisons to Detect Association in Two Way Contingency Tables</i></p>

SPE-09	Statistical models for directional and circular data (Room: SP/2) Chair: A. Maruotti – Discussant: F. Lagona C. Ley: <i>The WeiSSVM: a tractable, parsimonious and flexible model for cylindrical data</i> G. Mastrantonio: <i>The multivariate projected-skew normal distribution: Bayesian estimation and a hidden Markov model application</i> A. Panzera; M. Di Marzio; S. Fensore; C. C. Taylor: <i>Circular density estimation via matching local trigonometric moments</i>
SPE-10	The interplay between frequentist and bayesian inference (Room: A) Chair: W. Racugno – Discussant: M. E. Castellanos C. Grazian: <i>Classical inference for intractable likelihoods</i> J. Hannig; Q. Feng; H. Iyer; C. Wang: <i>Fusion learning for Interlaboratory Comparison</i> F. Pauli: <i>p-value in science: a review of issues and proposed solutions</i>
SPE-11	Société Française de Statistique (Room: B) Chair: A. Bar-Hen B. Avner: <i>Stochastic Block Model for Multiplex network: an application to a multilevel network of researchers.</i> Y. Bennani; I. Redko: <i>Nonnegative Matrix Factorization for Transfer Learning</i> T. Laloe: <i>Detection of dependence patterns with delay</i> J. Poggi; J. Cugliari; Y. Goude: <i>Disaggregated Electricity Forecasting using Wavelet-Based Clustering of Individual Consumers</i>
16:15	COFFEE BREAK
16:45	 SIS President's lecture (Room: Aula Magna)
17:45	 SIS members assembly (Room: Aula Magna)
20:00	Social dinner

09:00 PARALLEL SOLICITED SESSIONS

SOL-16

Forecasting economic and financial time series (Room: G. De Rosa)

Chair: T. Proietti

G. Goracci; S. Giannerini: *Asymptotics and power of entropy based tests of dependence for categorical data.*

M. M. Pelagatti; F. Lisi: *Forecasting electricity load and price: a comparison of different approaches*

G. Storti; R. Gerlach: *Flexible Realized GARCH Models*

SOL-17

Immigrations and integration in Italy (Room: V. Foa)

Chair: A. Paterno

O. Casacchia; C. Reynaud; S. Strozza; E. Tucci: *Minorities internal migration in Italy: an analysis based on gravity models*

C. Conti: *Growing generations and new models of integration*

N. Tedesco; L. Salaris: *Measurement of segregation in the labour market. An alternative approach*

L. Terzera; E. Barbiano di Belgiojoso: *Family behaviours among first generation migrants*

SOL-18

Open data, linked data and big data in public administration and official statistics (Room: SP/1)

Chair: S. Michelini

G. Di Bella; G. Garofalo: *Linked Administrative Data in Official Statistics: a Positive Feedback for the Quality?*

C. Martelli; M. Calzaroni; A. Samaritani: *Generating high quality administrative data: new technologies in a national statistical reuse perspective*

V. Santarcangelo; A. Buondonno; A. Romano; M. Giacalone: *An innovative approach about the analysis of quality and efficiency in Italian law*

B. Squitieri: *Prato municipality experience towards a high integration between administrative and statistical data*

SOL-19

Evaluation of prognostic biomarkers (Room: SP/2)

Chair: M. G. Valsecchi

F. Ambrogi; P. Boracchi: *Combining Clinical and Omics data: hope or illusion?*

L. Antolini; D. Bernasconi: *Graphical representations and summary indicators to assess the performance of risk predictors*

P. Chiodini; L. Cindolo: *Multivariable prognostic model: external validation and model recalibration with application to non-metastatic renal cell carcinoma*

SOL-20	Models for studying the mobility of students (Room: A)
	Chair: D. Contini S. Balia; R. Brau; E. Marrocu: <i>Modelling inter-regional patient mobility: evidence from the Italian NHS</i> A. D'Agostino; G. Ghellini; S. Longobardi: <i>University mobility at enrollment: geographical disparities in Italy</i> M. Enea: <i>From South to North? Mobility of Southern Italian students at the transition from the first to the second level university degree</i> F. Giambona: <i>Measuring territory student-attractiveness in Italy. Longitudinal evidence</i>
10:30	Plenary C
Salvatore Strozza: <i>Foreign immigration in Italy: a forty-year-old history</i> (Room: Aula Magna) Chair: A. De Rose – Discussant: M. Attanasio	
11:30	COFFEE BREAK
12:00	PARALLEL SPECIALIZED SESSIONS
SPE-12	National accounts (Room: SP/2) Chair: L. Biggeri – Discussant: V. Nicolardi A. Coli; E. Micheletti; B. Pacini: <i>The European Welfare State in times of crisis according to macroeconomic official statistics</i> C. Martelli: <i>National Account and Open Data: a new semantic approach</i> G. Oneto: <i>New information contents of the National Accounts for the monitoring of the economic situation</i>
	SPE-13
SPE-14	

TD	<p>PhD Thesis prize (Room: Aula Magna) Chair: TBA</p> <p>Statistics</p> <p>F. Camerlenghi: <i>Hierarchical and Nested Random Probability Measures with Statistical Applications</i></p> <p>M. Ranalli: <i>New perspectives on likelihood-based inference for latent and observed gaussian mixture models</i></p> <p>Applied Statistics and Demography</p> <p>S. Peluso: <i>Parametric and nonparametric bayesian methods in finance</i></p> <p>L. Paci: <i>Bayesian space-timedata fusion for real time forecasting and map uncertainty"</i></p>
13:30	LUNCH
14:30	<p>Round Table</p> <p>Viste e... riviste. Classificazione e ranking (Room: Aula Magna) Moderator: R. Verde</p> <p>Marco Malgarini (<i>Dirigente Area Valutazione della Ricerca - ANVUR</i>)</p> <p>Maurizio Carpita (<i>Università degli Studi di Brescia</i>)</p> <p>Nicola Torelli (<i>Università degli Studi di Trieste</i>)</p>
16:00	COFFEE BREAK
16:15	PARALLEL CONTRIBUTED SESSIONS
CON-09	<p>Economic data analysis (Room: G. De Rosa) Chair: M. Carpita</p> <p>M. Brunetti; M. Angrisani; V Atella: <i>Getting older and riskier: the effect of Medicare on household portfolio choices</i></p> <p>E. Ciavolino; M. Carpita: <i>Modelling the Public Opinion on the European Economy with the HO-MIMIC Model</i></p> <p>G. D'Epifanio: <i>Indexing the Worthiness of Social Agents. To norm index on conventional specifications</i></p> <p>G. Guagnano; M. Arezzo: <i>An econometric model for undeclared work</i></p> <p>M. Mussini; L. Grossi: <i>A spatial shift-share decomposition of energy consumption variation</i></p>
CON-10	<p>Quantile methods (Room: V. Foa) Chair: D. Vistocco</p> <p>M. Bernardi; V Bignozzi; L. Petrella: <i>Bayesian inference for L_p-quantile regression models</i></p> <p>V. Bignozzi; M. Bernardi; L. Petrella: <i>On the L_p-quantiles and the Student t distribution</i></p> <p>M. Marino; M. Alfò; M. Ranalli; N. Salvati: <i>M-quantile regression for multivariate longitudinal data</i></p> <p>D. Vistocco; C. Davino: <i>Comparing Prediction Intervals in Quantile and OLS Regression</i></p>

CON-11 **Statistical algorithms** (Room: SP/1)

Chair: N. Loperfido

N. Loperfido; C. Franceschini: *An Algorithm for Finding Projections with Extreme Kurtosis*

L. Scrucca: *Poisson change-point models estimated by Genetic Algorithms*

A. Stamm; O. Commowick; S. Vantini; S. K. Warfield: *Maximum Likelihood Estimators of Brain White Matter Microstructure*

CON-12 **Statistics for medicine** (Room: SP/2)

Chair: M. Ferrante

G. Barbati; F. Ieva; A. Scagnetto; G. Sinagra: *Competing risks between mortality and heart failure hospital re-admissions: a community-based investigation from the Trieste area*

C. Brombin; F. Cugnata; R. M. Martoni; M. Ferrario: *Evaluating association between emotion recognition and Heart Rate Variability indices*

M. Ferrante; A. Milito; A. Parroco: *Socio-economic deprivation, territorial inequalities and mortality for cardiovascular diseases in Sicily*

M. Giacalone; A. Alibrandi; A. Zirilli: *The use of Permutation Tests on Large-Sized Datasets*

CON-13 **Statistics for the education system** (Room: D)

Chair: A. Valentini

G. Boscaino; G. Adelfio; V Capursi: *Further considerations on a new indicator for higher education student performance*

C. Masci; A. Paganoni; F. Ieva; T. Agasisti: *Analysis of pupils' INVALSI achievements by means of bivariate multilevel models*

A. Valentini; G. De Candia; M. Carbonara: *Promoting statistical literacy to university students: a new approach adopted by Istat*

CON-14 **Testing procedures** (Room: B)

Chair: G. De Santis

E. Cascini: *A Reliability Problem: Censored Tests*

G. De Santis; G. Salinari: *Testing the Gamma-Gompertz-Makeham model*

M. M. Pelagatti: *A nonparametric test of independence*

A. Pini; L. Spreafico; S. Vantini; A. Vietti: *Functional Data Analysis of Tongue Profiles*

A. Vagheggini; A. Baldi Antognini; M. Zagoraiou: *On the asymptotic power of the statistical test under Response-Adaptive randomization*

CON-15 **Time series analysis** (Room: A)

Chair: M. Costa

C. Cappelli; P. D'Urso; F. Di Iorio: *Robust Atheoretical Regression Tree to detect structural breaks in financial time series***P. Chirico:** *Prediction intervals for heteroscedastic series by Holt-Winters methods***M. Costa:** *Inequality decomposition for financial variables evaluation***G. De Luca; G. Riveccio:** *Three-stage estimation for a copula-based VAR model*

CON-16 **Forecasting methods** (Room: Sala Studio)

Chair: M. S. Andreano

M. Andreano; R. Benedetti; P. Postiglione: *Forecasting with Mixed Data Sampling Models (MIDAS) and Google trends data: the case of car sales in Italy***V. Candila; A. Scognamillo:** *Probability forecasts in the market of tennis betting: the CaSco normalization***S. Vantini; A. Canale:** *Daily Prediction of Demand and Supply Curves*

17:30 PARALLEL CONTRIBUTED SESSIONS

CON-17 **Bayesian statistics (2)** (Room: G. De Rosa)

Chair: L. Paci

G. Marchese; P. Brutti; S. Gubbiotti: *Bayesian hierarchical models for analyzing and forecasting football results***L. Paci; A E Gelfand; M. Beamonte; P. Gargallo:** *Bayesian modeling of spatio-temporal point patterns in residential property sales***V. Vitale; V. Guizzi; F. Musella; P. Vicard:** *Non-parametric Bayesian Networks for Managing an Energy Market*

CON-18 **Business statistics** (Room: V. Foa)

Chair: A. Righi

E. Bartoloni: *How do firms perceive their competitiveness? Measurement and determinants***C. Bocci; M. Mariani:** *An evaluation of export promotion programmes with repeated multiple treatments***A. Righi; A. Nuccitelli; G. Barbieri:** *The inter-enterprise relations in Italy*

CON-19 **Clustering and classification** (Room: SP/1)

Chair: G. Menardi

C. Drago; R. Ricciuti: *Dendrograms Stability Analysis of Sub-periods Time Series Clustering***G. Menardi:** *Stability-based model selection in nonparametric clustering***T. Padellini; P. Brutti:** *Topological signatures for classification*

CON-20

Demographics and social statistics (2) (Room: D)

Chair: B. Arpino

M. Antonicelli; D. Calace; D. Morrone; A. Russo: *Ecolabels: inform or confusing customers? Evidences from the agrifood sector*

B. Arpino; V. Bordone; A. Rosina: *What makes you feeling old? An analysis of the factors influencing perceptions of ageing*

G. De Santis; M. Mucciardi: *A (partial) solution to the intractability of APC models*

G. Gabrielli; A. Paterno; L. Terzera: *Partner reunification of first generation immigrants in Lombardy*

CON-21

Statistical inference (Room: A)

Chair: A. Maruotti

E. Kenne Pagui; A. Salvan; N. Sartori: *Median bias reduction of maximum likelihood estimates in binary regression models*

N. Lunardon; G. Adimari: *On penalized likelihood and bias reduction*

A. Maruotti; O. Anan; D. Bohning: *Population size estimation and heterogeneity in capture-recapture count data*

CON-22

Survey methods (Room: B)

Chair: R. Salvatore

A. Pinto; E. Ruli; S. Crovato; L. Ventura: *Italian consumers' food risks perception: an approach based on the correspondence analysis*

R. Salvatore; F. Cappuccio: *Spatial-temporal multivariate small area estimation*

D. Toninelli; M. Revilla: *Is the Smartphone Participation Affecting the Web Survey Experience?*

18:45

Closing ceremony (Room: Aula Magna)
