Conference of European Statistics Stakeholders
Methodologists, Producers and Users of European Statistics

Rome, 24-25 November 2014

Conference Venue
Morning 24 November, 2014, Aula Magna, Rectorate, Sapienza University of Rome, P.le A. Moro 5
Afternoon 24 and Day 25 November, Sapienza University of Rome, Sapienza didactic building via Caserta 6

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Organized by
Federation of European National Statistical Societies (FENStatS)
EUROSTAT
European Statistical Advisory Committee (ESAC)
Italian National Institute of Statistics (Istat)
Società Italiana di Statistica SIS-VSP
Department of Statistical Sciences, Sapienza University of Rome

Scientific Steering Committee
Walter Radermacher, Director General of Eurostat, Co-organizer
Maurizio Vichi, President FENStatS, Co-organizer

Anne Gégout-Petit, President of the French Statistical Society,
Giorgio Alleva, President ISTAT,
Leandro Pardo LLorente, President of the Spanish Society of Statistics and Operations Research.
John Pullinger, UK National Statistician, Past President of The Royal Statistical Society,
Aurel Schubert, Director General Statistics European Central Bank,
Ineke Stoop, ESAC,
Wolfgang Schmid, President of the German Statistical Society,
Nicola Torelli, President of the Italian Statistical Society,

Scientific Program Committee
Emanuele Baldacci, Istat
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Roberto Barcellan, Eurostat
Martin Karlberg, Eurostat
Giuliana Coccia, SIS-Vsp
Fabio Crescenzi, SIS-Vsp
Donatella Vicari, Sapienza University of Rome

General Information
The scientific program includes plenary, invited and contributed sessions with oral presentation in English.

Language
The official language of the conference is English

A selection of fully peer-reviewed papers will be published in the Springer Series *Selected Papers of the Statistical Societies* (http://www.springer.com/series/10107).

PROGRAMME

Morning 24 November 2014
Aula Magna, Rectorate - *Sapienza University of Rome*
Piazzale Aldo Moro 5

8.15 – 8.45   Registration

08.45 – 09.30   Opening
Eugenio Gaudio, Rector Sapienza University of Rome
Fabio Grasso, Head of the Department of Statistical Science
Authorities

09.30 – 10.50   *Keynote talks*
European statistics and Europe 2020
09.30 – 09.50 Walter Radermacher, Director General Eurostat
09.50 – 10.10 Maurizio Vichi, President FENStatS
10.10 – 10.30 Ineke Stoop, Chair of ESAC
10.30 – 10.50 Andrea Saltelli, Head of Econometrics and applied statistics unit, Joint Research Centre

10.50 – 11.10   *Special guest talk*
Statistics making an impact for Europe 2020
John Pullinger, National Statistician of UK, Royal Statistical Society

11.10 – 11.40   Coffee break

11.40 – 13.00   *Panel discussion*
Enhancing collaboration among Statistics Stakeholders and Research for Europe 2020

Chair: Giorgio Alleva, President Istat

Speakers:
Leandro Pardo LLorente, President of the Spanish Society of Statistics and Operations Research
Karl Mosler, Vice-President of the German Statistical Society
Anne Gégout-Petit, President of the French Statistical Society
Lidia Bratanova, Chief Statistician UNECE
Marjo Bruun, Director General, Statistics Finland

Transfer by walking from Aula Magna to Sapienza - Didactic building, via Caserta 6 (*600 meters, 7 minutes*)

13.00 – 14.20   Lunch
Lunch in the Roof Garden of the Sapienza Didactic building, via Caserta 6

Didactic building - *Sapienza University of Rome*
***Via Caserta* 6**

Invited Session 1: 14.20 – 15.30 Room 1
Modernisation of Statistical Production Processes: Vision, Experiences and Challenges

Chair: Emanuele Baldacci, Istat

14.20– 14.35   Trends in the modernisation of official statistics
          Mariana Kotzeva, EC Eurostat
14.35– 14.50   Modernizing Modernization
          Bert Kroese, Barteld Braaksma, Marton Vucsan, Statistics Netherlands
14.50– 15.05   Modernisation of Statistical Production and Services – a Global Perspective
          Steve Vale, UNECE
15.05 – 15.20   A Business Architecture Model to foster standardisation in official statistics
          Nadia Mignolli, Giulio Barcaroli, Piero Demetrio Falorsi, Alessandra Fasano, Istat
15.20 – 15.30   Discussion

Invited Session 2: 14.20 – 15.30 Room 2
European Statistics on Justice Systems: the Picture of a Poor Reality

Chair: Ildefonso Villán Criado, ESAC

14.20– 14.40   The EU Justice Scoreboard: Challenges in data gathering on the effectiveness of justice systems
          Elsa Garcia-Maltrás, Directorate-General Justice, European Commission
14.40– 15.00   Judicial enforcement procedures and credit: lessons from the last decade in Spain
          Juan S. Mora-Sanguinetti, Miguel García-Posada, Bank of Spain
15.00– 15.20   Lights and shadows of the Italian judicial system: first steps towards accountability
          Maria Giuseppina Muratore, Istat
15.20 – 15.30   Discussion

Invited Session 3: 14.20 – 15.30 Room 3
The Challenges for Environmental Data Stakeholders

Chair: Daniela Cocchi, University of Bologna

14.20– 14.35   Measures of Risk: Advances and New Perspectives for Environmental Risk Assessment
          Jose Miguel Angulo Ibanez, University of Granada
14.35– 14.50   Use of atmospheric pollution data at INERIS, the French National Institute for Industrial
          Environment and Risks, to support the assessment and management of air quality
          Laure Malherbe, INERIS France
14.50– 15.05   Environmental data production and exploitation at Arpa E-R, the Regional Environmental Protection
          Agency of Emilia-Romagna, Italy
          Stefano Tibaldi, Director, ARPA Emilia-Romagna
15.05 – 15.20   Multivariate hidden Markov models as tools for marine atlas development
          Francesco Lagona, University Roma Tre
15.20 – 15.30   Discussion

Solicited Session 4: 14.20 – 15.30 Room 4
Spatial Statistical Methods for Official Statistics

Chair: Robert Haining, University of Cambridge

14.20 – 14.35   Alternative model specifications for regression estimated on big spatial datasets
          Giuseppe Arbia, Catholic University of Sacred Heart

14.35 – 14.50 Benchmarking methods for space and time unit level EBLUP estimators
Michele D'Alò, Lorenzo Di Biagio, Stefano Falorsi, **Andrea Fasulo**, Fabrizio Solari, Istat
14.50 – 15.05 Use of geo-referenced information for statistical purposes
Elisabetta Carfagna, University of Bologna; Simone Maffei Terranova GIS; Andrea Carfagna
15.05 – 15.20 Toward a data-and-policy spatially integrated system in the local context: From evidence-informed to policy-motivated statistical knowledge
Wlodzimierz Okrasa, Central Statistical Office of Poland
15.20 – 15.30 Discussion

Invited Session 5: 15.30 – 16.40 Room 1
Economy Finance and Business Statistics for Europe 2020

Chair: Mauro Politi, Istat

15.30 – 15.45 Financial Statistics for Europe 2020
Aurel Schubert, Director General Statistics, European Central Bank
15.45 – 16.00 How to measure the quality of Financial tweets
Paola Cerchiello, **Paolo Giudici**, University of Pavia
16.00 – 16.15 Improving business statistics for small domains
Maria Rosaria Ferrante, **Silvia Pacei**, University of Bologna
16.15 – 16.30 International trade and investment: improving our knowledge about competitive advantages
Fabrizio Onida, University of Milan-Bocconi
16.30 – 16.40 Discussion

Invited Session 6: 15.30 – 16.40 Room 2
Visualising Statistics in the E-society

Chair: Vittoria Buratta, Istat

15.30 – 15.45 Big Data and Visual Analytics for Health Care Systems Performance Assessment
Orestis Tsigkas and Michail Skaliotis, EC - Eurostat
15.45 – 16.00 Data-Visualisation: From Tool to Mother Tongue
Michael Neutze, Sibylle von Oppeln-Bronikowski Federal Statistical Office of Germany
16.00 – 16.15 Web services for spatial temporal comparison of statistical indicators
Pina Ticca, Istat
16.15 – 16.30 Preparation of reproducible statistical reports
Andrej Blejec, Statistical Society of Slovenia, National Institute of Biology
16.30 – 16.40 Discussion

Contributed Session 7: 15.30 – 16.40 Room 3
New Methods for Data Collection and Control

Chair: Karl Mosler, University of Cologne

15.30 – 15.45 A Methodological and Computational Framework for Statistical Disclosure Control
Matthias Templ, Alexander Kowarik, Bernhard Meindl, Austrian Statistical Society, Vienna
15.45 – 16.00 The Economic e-Census in Tuscany: effects of the data collection strategy on the response rates
Luca Faustini, Sabina Giampaolo, Alessandro Valentini, Istat
16.00 – 16.15 Experiments on internet and mixed-mode data collection at Insee
Olivier Sautory, Gaël de Peretti, Tiaray Razafindranovona, Insee
16.15 – 16.30 User-focused threat identification for anonymised microdata
Hans-Peter Hafner, Saarland State University; Felix Ritchie, University of the West of England; Rainer Lenz, Technical University of Dortmund
16.30 – 16.45 Istatel Project: computerization of the data collection process on population statistics
Roberto Bartoli, Carla Camilloni, Cristina Cesaroni, Carla Rubbo, Istat

Contributed Session 8: 15.30 – 16.40 Room 4
What Statistics can Measure and How: Defining European Statistics with a 2020 Time Horizon

Chair: Matilde Bini, European University of Rome, SIS-VSP

15.30 – 15.45 Are the Central and East European Countries attracting the appropriate type of foreign direct investments?
Vasile Alecsandru Strat, Bucharest University of Economic Studies
15.45 – 16.00 Revised definitions for statistical units - methodology, application and user needs
Roland Sturm, Federal Statistical Office Germany
16.00 – 16.15 Displaying empirical distributions with conditional quantile estimators: an application of symbolic data analysis to the cost allocation problem in agriculture
Dominique Desbois, UMR Economie publique, INRA-AgroParisTech
16.15 – 16.30 The boundary of public sector in National Accounts versus IPSAS
Giovanna Dabbicco, Istat, University Naples Parthenope
16.30 – 16.45 Morbidity Statistics in the EU – key results from pilot studies in sixteen member states
Monica Pace, Istat; Hartmut Buchow, Eurostat

16.40 – 17.10 Coffee break

Invited Session 9: 17.10 – 18.20 Room 1
Cross-national Surveys: Data Collection and Analysis

Chair: Ineke Stoop, Chair ESAC

17.10 – 17.30 Developing comparability in Eurofound surveys: focus on input harmonisation and translation
Tadas Leoncikas, European Foundation for the Improvement of Living and Working Conditions
17.30 – 17.50 Choosing the Number of Categories in Agree–Disagree Scales
Melanie Revilla, Universitat Pompeo Fabra
17.50 – 18.10 Seeing the Hidden Part of the Iceberg: Gauging the Real Dimension of International Migration
Adrian Otoiu, Bucharest Academy of Economic Studies ;Emilia Titan, ESAC, Bucharest Academy of Economic Studies
18.10 – 18.20 Discussion

Invited Session 10 : 17.10 – 18.20 Room 2
Poverty and Social Exclusion: Enhancing Capacity to Measure Employment and Social Developments

Chair: Linda Laura Sabbadini,Istat

17.10 – 17.25 The absolute measure of poverty: a key indicator to design policies
Cristina Freguja, Nicoletta Pannuzi, Istat
17.25 – 17.40 The Italian Active inclusion System
Raffaele Tangorra, Ministry of Labour and Social Affairs
17.40 – 17.55 Behind and beyond the (headcount) employment rate
Andrea Brandolini, **Eliana Viviano**, Banca d'Italia
17.55 – 18.10 Measuring poverty and living conditions at small area level
Monica Pratesi, University of Pisa; Alessandra Petrucci, University of Florence
18.10 – 18.20 Discussion

Invited Session 11: 17.10 – 18.20 Room 3
The Combined use of Administrative Sources and Statistical Surveys, an Incoming Revolution for Statistical Stakeholders

Chair: Fabio Crescenzi, Istat, SIS-Vsp

17.10 – 17.25 Research into using administrative data and surveys to produce census and population statistics – ONS Beyond 2011 Programme, England and Wales
Andy Teague, ONS UK

17.25 – 17.40	The Dutch Census 2011
	Eric Schulte Nordholt, CBS NL
17.40 – 17.55	Statistical Matching in complex survey data: beyond the conditional independence assumption
	Pier Luigi Conti, Sapienza University of Rome; **Daniela Marella**, University of Roma tre
17.55 – 18.10	Supporting the statistical utilization of administrative data sources: Istat's activities and tools
	Giovanna D'Angiolini, Pierina De Salvo, Andrea Passacantilli, Istat
18.10 – 18.20	Discussion

Invited Session 12: 17.10 – 18.20 Room 4
On the impact of modernisation

Chair: Mariana Kotzeva, EC Eurostat

17.10 – 17.30	Changing UK Official Statistics System - Getting it right
	John Pullinger, UK National Statistician
17.30 – 17.50	Modernization @ work: lessons learned
	Emanuele Baldacci
17.50 – 18.10	Implementing Vision 2020; which will the new interfaces be between the stakeholders of the European Statistical System?
	Roberto Barcellan, EC Eurostat
18.10 – 18.20	Discussion

Morning 25 November 2014

Didactic building - Sapienza University of Rome
Via Caserta 6

Contributed Session 13: 08.30 – 9.40 Room 1
Analysing and Summarising Large Sets of Indicators

Chair: Vincenzo E. Vinzi, ESSEC Business School

08.30 – 08.45   The MIMIC model to predict economic public opinions through macro-economic indicators in Europe
Maurizio Carpita, University of Brescia, Enrico Ciavolino, **Mariangela Nitti**, University of Salento

08.45 – 09.00   Summarizing Data using Partially Ordered Set Theory: An application to fiscal frameworks in 97 countries
Julia Bachtrögler, Harald Badinger, Aurélien Fichet de Clairfontaine, Wolf Heinrich Reuter, Vienna University of Economics and Business

09.00 – 09.15   Interval Based Composite Indicators
Carlo Drago, University of Rome "Niccolò Cusano"

09.15 – 09.30   Non-compensatory Composite Indices for Measuring Changes over Time: A Comparative Study
Matteo Mazziotta, Adriano Pareto, Istat

09.30 – 09.40   Discussion

Contributed Session 14: 08.30 – 09.40 Room 2
Analysis and Estimation of Survey Data

Chair: Pier Luigi Conti, Sapienza University of Rome

08.30 – 08.45   Streamlining data editing at Statistics Spain
Silvia Rama, **David Salgado**, Spanish National Statistical Institute

08.45 – 09.00   Estimation of Non-Registered Usual Residents in the Netherlands, ultimo September 2010
Bart F.M. Bakker, Statistics Netherlands & VU University Amsterdam; Susanna Gerritse, Peter G.M. van der Heijden, Utrecht University; Jan van der Laan Statistics Netherlands, Rik van der Vliet, Maarten Cruyff, Utrecht University

09.00 – 09.15   Analysis of Survey Data under Informative Sampling Design and Nonignorable Nonresponse Mechanism
Abdulhakeem Eideh, Al-Quds University

09.15 – 09.30   Pairwise likelihood estimation based on a sample of pairs
Ioulia Papageorgiou, Athens University of Economics and Business; Irini Moustaki, London School of Economics and Political Science

09.30 – 09.40   Discussion

Solicited Session 15: 08.30 – 09.40 Room 3
Methods for Analysing Big Data in the Context of Official Statistics

Chair: Roberto Barcellan, EC Eurostat

08.30 – 08.45   Processes and methods for Big Data: a traffic index based on huge amounts of road sensor data
Piet Daas, **Marco Puts**, Saskia Ossen and Martijn Tennekes, Statistics Netherlands

08.45 – 09.00   Handling missing data in large data sets
Agostino Di Ciaccio, Sapienza University of Rome

09.00 – 09.15   Big-data, self-selection, predictions in real-time, intangible variables, opinion and sentiment manipulation: the landing in the future of business statisticians
Furio Camillo, University of Bologna

09.15 – 09.30   Data Linking: A Common Project for Official Statistics
Tiziana Tuoto, Istat; Phillip Gould, Australian Bureau of Statistics; Allyson Seyb, Statistics New Zealand; Nicoletta Cibella, Monica Scannapieco, Mauro Scanu, Istat

09.30 – 09.40   Discussion

Solicited Session 16: 08.30 – 09.40 Room 4
New Challenges for Improving Survey Analysis

Chair: Rosanna Verde, Second University of Naples

08.30 – 08.45   Some fallacies and remedies in secondary data analysis for survey data
                Giancarlo Manzi, University of Milan; Sonia Stefanizzi, University of Mila-Bicocca; Pier Alda
                Ferrari, University of Milan
08.45 – 09.00   The best model of a cat is the cat itself
                Gejza Dohnal, Czech Technical University in Prague
09.00 – 09.15   SiGeoS: a user-friendly tool to visualise and communicate statistics
                Antonella Bianchino, Istat; Annamaria Grippo, Regione Basilicata; Salvatore Cariello, Istat
09.15 – 09.30   Measuring the at-risk-of-poverty rate at local level
                Ralf Münnich, University of Trier
09.30 – 09.40   Discussion

Solicited Session 17: 09.40 – 10.50 Room 1
Graphical and Network Models and Analysis in the Context of Official Statistics

Chair: Leandro Pardo LLorente, Universidad Complutense de Madrid

                Extracting association rules from two-mode networks
09.40 – 09.55   **Giuseppe Giordano**, University of Salerno; Raffaele Miele, CRISMA
09.55 – 10.10   Identification and Estimation of Outcome Response with Heterogeneous Treatment Externalities
                Tiziano Arduini, **Eleonora Patacchini**, Edoardo Rainone, Sapienza University of Rome
10.10 – 10.25   Bayesian Network in effectiveness of education
                Federica Cugnata, University of Turin; Giovanni Perucca Polytechnic University of Milan; **Silvia
                Salini**, University of Milan
10.25 – 10.40   Detecting Influential Observations for Graphical Models
                Avner Bar-Hen, University of Paris Descartes; **Jean-Michel Poggi**, University Paris-Sud Orsay
10.40 – 10.50   Discussion

Invited Session 18: 09.40 – 10.50 Room 2
New Challenges in the Analysis of Longitudinal Data

Chair: Francesco Battaglia, Sapienza University of Rome

09.40 – 10.00   Three-step estimation of latent Markov models
                Francesco Bartolucci, Giorgio Eduardo Montanari, Silvia Pandolfi, University of Perugia
10.00 – 10.20   Modelling pollutants' evolution and association over time: a time-varying latent class approach
                Antonello Maruotti, University of Roma Tre and Southampton
10.20 – 10.40   Bayesian non-parametric model to longitudinally predict churn
                Bruno Scarpa, University of Padua
10.40 – 10.50   Discussion

Solicited Session 19: 09.40 – 10.50 Room 3
New Challenges in Spatio-Temporal Data Modeling and Monitoring

Chair: Giuseppe Arbia, Catholic University of Sacred Heart

09.40 – 09.55   WebGis and Geostatistical Techniques for Monitoring Potential Radon in Soil
                Sabrina Maggio, Veronica Distefano, **Alessandra Spennato**, University of Salento
09.55 – 10.10   Generalised Regressions For Spatially and Spatio-Temporally Correlated Data
                Lara Fontanella, **Luigi Ippoliti**, Pasquale Valentini, University G. d'Annunzio Chieti-Pescara
10.10 – 10.25   Small area estimation for classifying change: Bayesian modelling applied to crime data
                Robert Haining, University of Cambridge
10.25 – 10.40   Monitoring spatially dependent data coming from sensors: an approach based on functional data
                analysis

Elvira Romano, Antonio Balzanella, Second University of Naples

10.40 – 10.55   Spatio-temporal modeling and some applications
Sandra De Iaco, Sabrina Maggio, Monica Palma, **Donato Posa**, University of Salento

Solicited Session 20: 09.40 – 10.50 Room 4
New Methodological Challenges for Official Statistics

Chair: Giuliana Coccia, Istat, SIS-Vsp

09.40 – 09.55   A new paradigm for modelling ordinal responses in sample surveys
Maria Iannario and Domenico Piccolo, University of Naples Federico II
09.55 – 10.10   Childhood obesity and CUB models: a new perspective
Corrado Crocetta, University of Foggia; Emma Zavarrone, Vincenzo Russo, University IULM;
Barbara Cafarelli, University of Foggia; Laura Antonucci, **Laura Milani**, Sandra De Francisci,
University IULM
10.10 – 10.25   Skewness-kurtosis adjusted confidence estimators and significance tests
Wolf-Dieter Richter, University of Rostock
10.25 – 10.40   A Procrustes-based approach for comparing relational datasets
Simona Balbi, Federico II University of Naples; **Michelangelo Misuraca**, University of Calabria;
Agnieszka Stawinoga, Federico II University of Naples
10.40 – 10.50   Discussion

10.50 – 11.20 Coffee break

Invited Session 21: 11.20 – 12.30 Room 1
Central Banking Statistics – Expanding Production Frontiers

Chair: Aurel Schubert, DG Statistics ECB

11.20 – 11.40   Regulatory data used for macroprudential policymaking: the UK residential mortgage market
Mark H Robson, Head of Statistics and Regulatory Data, Bank of England
11.40 – 12.00   Reaping the benefits of using integrated micro-data for statistical purposes
João Cadete de Matos, Director, Statistics Department, Bank of Portugal
12.00 – 12.20   Integration: a key-word for success in statistical production
Grazia Marchese, Bank of Italy
12.20 – 12.30   Discussion

Invited Session 22: 11.20 – 12.30 Room 2
Classification and Clustering

Chair: Salvatore Ingrassia, Univeristy of Catania

11.20 – 11.35   Robust clustering of customs data
Andrea Cerioli, Domenico Perrotta, Francesca Torti, Marco Riani, University of Parma
11.35 – 11.50   Mode Validation for Nonparametric Clustering
Marco Perone Pacifico, Sapienza University of Rome
11.50 – 12.05   fclust: a toolbox for fuzzy clustering using the R programming language
Maria Brigida Ferraro, **Paolo Giordani**, Sapienza University of Rome
12.05 – 12.20   Clustering spatial networks through latent mixture models: an application to local labour market
identification
Francesco Pauli, **Nicola Torelli**, Susanna Zaccarin, University of Trieste
12.20 – 12.30   Discussion

Invited Session 23: 11.20 – 12.30 Room 3
New Challenges for Environmental and Agricultural Statistics

Chair: Francesco Lagona, University of Roma Tre

11.20 – 11.35 Statistical problems in earth observing systems: the case of radiosonde collocation uncertainty
Alessandro Fasso', University of Bergamo
11.35 – 11.50 Environmental monitoring through biodiversity functional measures
Tonio Di Battista, **Francesca Fortuna** and Fabrizio Maturo, University G. D'Annunzio Chieti-Pescara
11.50 – 12.05 EEA indicators supporting European policies
Roberta Pignatelli, European Environment Agency
12.05 – 12.20 How to produce and communicate Agricultural Statistics
Éva Zita Laczka, Hungarian Central Statistical Office
12.20 – 12.30 Discussion

Invited Session 24: 11.20 – 12.30 Room 4
Advanced Communication for Statistics of Europe 2020

Chair: Patrizia Cacioli, Istat

11.20 – 11.35 Tracking users for a targeted dissemination
Philippe Bautier, Chris Laevaert, Bernard Le Goff, EC Eurostat
11.35 – 11.50 Innovation goal: recent developments of Istat Communication,
Giulia Mottura, Anna Tononi , Istat
11.50 – 12.05 Digital Content: Official Data in a New Light
Alan Smith, ONS
12.05 – 12.20 Beyond Data Visualization: (Communication) Design Tactics to Embrace Complexity
Paolo Ciuccarelli, Polytechnic University of Milan
12.20 – 12.30 Discussion

Invited Session 25: 12.30 – 13.40 Room 1
Measuring the Progress of Europe 2020

Chair: Walter Radermacher, EC Eurostat

12.30 – 12.50 Equitable and Sustainable Wellbeing: from measurement to policy
Enrico Giovannini, University of Tor Vergata
12.50 – 13.10 Europe 2020 at the half-way point: working toward better indicators for social policy making in the EU
Radek Maly Head of Unit Social Analysis at DG Employment
13.10 – 13.30 Partnerships to measure progress
Denise Lievesley, Head of the King's College London
13.30 – 13.40 Discussion

Invited Session 26: 12.30 – 13.40 Room 2
Methods for Analysing Complex Data

Chair: Donatella Vicari, Sapienza University of Rome

12.30 – 12.50 Text Mining Infrastructures for Search
Sophia Ananiadou, Director of The National Centre for Text Mining (NaCTeM)
12.50 – 13.10 iSA: a novel, fast, scalable and accurate algorithm designed to perform sentiment analysis over social network data
Andrea Ceron, Luigi Curini, **Stefano Maria Iacus**, University of Milan
13.10 – 13.30 The Symbolic Approach for Survey Analysis: From Micro-Data to Macro-Data
Paula Brito, University of Porto
13.30 – 13.40 Discussion

Contributed Session 27: 12.30 – 13.40 Room 3
Advances and Applications for Official Statistics

Chair: Corrado Crocetta, University of Foggia, SIS-VSP

12.30 – 12.45 A Multilevel Analysis of Population Registers' Coverage Error in the 15th Italian Census
               Luca Mancini, Simona Toti, Istat
12.45 – 13.00 Distributed Access to Linked Microdata: the Example of ICT and Exports
               Eva Hagsten, Statisitcs Sweden
13.00 – 13.15 Hard to reach populations as a challenge for European statistics - experiences based on survey research of the EU Agency for Fundamental Rights
               David Reichel, Sami Nevala, **Ursula Till-Tentschert**, European Union Agency for Fundamental Rights
13.15 – 13.30 Applying LDA topic model to a corpus of Italian Supreme Court decisions
               Paolo Fantini and Pierpaolo Brutti, Sapienza University of Rome
13.30 – 13.45 The merits of micro-aggregated linked firm-level data: An application of labour demand by SMEs for 14 European Countries
               Martin Falk, Eva Hagsten, WIFO

Contributed Session 28: 12.30 – 13.40 Room 4
Improving Statistical Literacy and Communication

Chair: Maria João Casanova de Araújo e Sá Valente Rosa, ESAC

12.30 – 12.45 Assessment of statistical literacy: a pilot survey on college students. The case of University of Pisa
               Alessandro Valentini, Istat; Monica Pratesi, University of Pisa; Bianca Maria Martelli, Silvia Da Valle, Luca Faustini, Linda Porciani, Graziella Sanna, Claudia Tinelli , Istat
12.45 – 13.00 JRF Data - NEW interactive data visualisation tool
               Aleksandra Collingwood, Joseph Rowntree Foundation
13.00 – 13.15 Minos: a journey through sport, theatre and statistic culture
               Cristina Carbonari, Michela Ciaffarafà, **Francesca Paradisi**, Istat
13.15 – 13.30 How to increase statistical literacy in primary school: a project of the Istat territorial network
               Susi Osti, **Silvia Da Valle**, Paola Francesca Cortese, Alessandro Valentini, Istat
13.30 – 13.45 Communicating through Social Networking Tools in Istat
               Ariella Martino, **Michela Troia**, Istat

13.40 – 14.40 Lunch
Lunch in the Roof Garden of the Sapienza didactic building, via Caserta 6

Invited Session 29: 14.40 – 15.50 Room 1
Advances in Summarizing Large Sets of Indicators

Chair: Maurizio Vichi, Univeristy of Rome, President FENStatS

14.40 – 14.55   Quality and aggregation issues in GDP and beyond: insights from the OECD Better Life Initiative
                Carlotta Balestra, OECD
14.55 – 15.10   Lost in Aggregation
                Michaela Saisana, Andrea Saltelli, Paolo Paruolo, JRC
15.10 – 15.25   Component-based Multi-block Path Modeling for building Composite Indicators
                Laura Trinchera, NEOMA Business School; Giorgio Russolillo, CNAM; **Vincenzo E. Vinzi**,
                ESSEC Business School, President-Isbis
14.25 – 15.40   Official Statistics and Composite Indicators: Developing the Innovation Output Indicator
                Carsten Olsson, Eurostat
15.40 – 15.50   Discussion

Invited Session 30: 14.40 – 15.50 Room 2
Statistical Literacy and Accreditation of Statistical Professionalism

Chair: Nicola Torelli, University of Trieste, President SIS

14.40 – 14.55   How to Improve Statistical Literacy?
                Anuska Ferligoj, ESAC, University of Ljubljana
14.55 – 15.10   EMOS - European Master in Official Statistics
                Markus Zwick, EC - Eurostat
15.10 – 15.25   Statistical Professionalism: Recognising Impact for the Public Good
                Roeland Beerten, Royal Statistical Society
15.25 – 15.40   Statistics at MOX: an excursion in high dimensional and complex data analysis
                Piercesare Secchi, Polytechnic University of Milan
15.40 – 15.50   Discussion

Contributed Session 31: 14.40 – 15.50 Room 3
Analysing and Measuring Inequality, Poverty and Social Problems

Chair: Eduardo Barredo, EC Eurostat

14.40 – 14.55   Collecting survey data to support fundamental rights policies in the EU
                Sami Nevala; David Reichel, **Ursula Till-Tentschert** European Union Agency for Fundamental
                Rights
14.55 – 15.10   Estimating equivalised income inequality in small areas
                Enrico Fabrizi, University Cattolica of S Cuore; **Maria Rosaria Ferrante**, Carlo Trivisano,
                University of Bologna
15.10 – 15.25   Poverty in Europe: the obscured message of official statistics
                Jean-François Royer, Société française de statistique
15.25 – 15.40   The causes of Polish emigration: a latent class analysis approach
                Ewa Genge, University of Katowice
15.40 – 15.50   Discussion

Solicited Session 32: 14.40 – 15.50 Room 4
New Challenges for Data Analysis in Official Statistics

Chair: Paula Brito, University of Porto

14.40 – 14.55   Data reduction and visualization for categorical data

Alfonso Iodice D'Enza, University of Cassino; Michel van de Velden, Erasmus University of Rotterdam; Francesco Palumbo, University of Naples Federico II

14.55 – 15.10 Multidimensional Scaling for Latent Dissimilarity Data
J. Fernando Vera, University of Granada

15.10 – 15.25 A multi item scale to assess entrepreneurship levels in the Italian agriculture
Benedetto Rocchi, Gianluca Stefani, Chiara Landi, Massimo Greco, Daniela Fusco, Paola Giordano and Valerio Moretti, Istat

15.25 – 15.40 Modelling the Passenger Satisfaction of the Public Transportation Services: The Metro Brescia Survey
Luigi D'Ambra, University of Naples Federico II; Maurizio Carpita, University of Brescia; Enrico Ciavolino, University of Salento

15.40 – 15.50 Discussion

Invited Session 33: 15.50 – 17.00 Room 1
Data protection

Chair: Zsuzsanna Belenyessy, European Data Protection Supervisor

15.50 – 16.05 Big data may be more personal than it appears!
Achim Klabunde, Head of IT Policy, European Data Protection Supervisor

16.05 – 16.20 Policies for a fair re-use of data: Big Data and the application of anonymisation techniques
Giuseppe d'Acquisto, Italian Data Protection Authority

16.20 – 16.35 Privacy principles under pressure in the age of Big Data analytics
Catharina Nes, Senior Advisor, Norwegian Data Protection Authority

16.35 – 16.50 Indirect questioning and protection of privacy in sample surveys
Tasos C Christofides, ESAC, University of Cyprus

16.50 – 17.00 Discussion

Invited Session 34: 15.50 – 17.00 Room 2
Methods for Analysing Big Data in the Context of Official Statistics

Chair: Pieter Everaers, EC Eurostat

15.50 – 16.05 Big Data Analysis: Experiences and Best Practices in Official Statistics
Monica Scannapieco, Giulio Barcaroli, Stefano De Francisci, Istat

16.05 – 16.20 Data Mining, Machine Learning and Official Statistics
Gilbert Saportà, CNAM Paris; Hossein Hassani, Bournemouth University

16.20 – 16.35 Changing landscape in environmental data infrastructures
Massimo Craglia, Jacopo Grazzini, European Commission - Joint Research Centre

16.35 – 16.50 The value proposition of the Official Statistics Research Community in the field of Big Data – and what Big Data research could bring to Official Statistics
Martin Karlberg, EC Eurostat

16.50 – 17.00 Discussion

Contributed Session 35: 15.50 – 17.00 Room 3
Statistics for Decision-making: Statistical Products and Services for an Informed Society

Chair: Frances Ruane, ESAC

15.50 – 16.05 The Cambridge Compromise - A Proposal for the Composition of the European Parliament
Friedrich Pukelsheim, University of Augsburg

16.05 – 16.20 Tailoring products to inform decision making: Sharing good practice from across the UK
Stephanie Howarth, UK Statistics Authority

16.20 – 16.35 Which wellbeing indicators can really influence the political arena?
Donato Speroni, Istituto per la formazione al giornalismo, University of Urbino

16.35 – 16.50 New challenges in detecting learning by exporting effects on firms' productivity distribution
Maria Rosaria Ferrante, Marzia Freo, Department of Statistical Sciences University of Bologna

16.50 – 17.00   Discussion

Solicited Session 36: 15.50 – 17.00 Room 4
Regression and Multilevel Models

Chair: Andrea Cerioli, University of Parma

15.50 – 16.05   How to cope with modelling and privacy concerns? A regression model and a visualization tool for
aggregated data
Rosanna Verde, Antonio Irpino, Second University of Naples; Dominique Desbois, UMR Economie
publique, INRA-AgroParisTech
16.05 – 16.20   New statistical approaches for the evaluation of healthcare structures
Salvatore Ingrassia, University of Catania; Giorgio Vittadini, Univeristy of Milan-Bicocca; Paolo
Berta, Univeristy of Milan-Bicocca; Antonio Punzo, University of Catania
16.20 – 16.35   Operationalising 'safe statistics': the case of linear regression
Felix Ritchie, University of the West of England Bristol
16.35 – 16.50   Exploiting TIMSS and PIRLS combined data: multivariate multilevel modelling of student
achievement
Leonardo Grilli, Fulvia Pennoni, University Milan-Bicocca; Carla Rampichini, University of
Florence; Isabella Romeo, University Milan-Bicocca
16.50 – 17.00   Discussion

Invited Session 37: 17.00 – 18.10 Room 1
Statistics for Enhanced Economic Governance

Chair: Denis Durand, ESAC

17.00 – 17.15   The MIP scoreboard: a set of macroeconomic indicators for European Union governance
Rosa Ruggeri Cannata, Dario Buono, EC Eurostat
17.15 – 17.30   The Macroeconomic Imbalance Procedure: statistics from a user perspective
Jonas Fischer, DG ECFIN
17.30 – 17.45   Journalistic information deals with statistical data, economic government and the observance of the
fiscal compact
Journalist,
17.45 – 18.00   National Reform Program: Italian evidence
Paolo Reboani, President of Italia lavoro
18.00 – 18.10   Discussion

Solicited Session 38 : 17.00 – 18.10 Room 2
Construction of Indicators for Measuring the Progress of Societies

Chair: Filomena Maggino, University of Florence

17.00 – 17.15   A new method for synthesizing multidimensional measures – an application on comparing wellbeing
patterns in Italian society
Marco Fattore, University of Milan-Bicocca;
17.15 – 17.30   Complex Phenomena Measured on Individuals: The Challenge of Mixed Data
for Composite Indicators
Giovanna Boccuzzo, **Giulio Caperna**, University of Padua
17.30 – 17.45   Evolution of the BES Project
Saverio Gazzelloni, Adolfo Morrone, **Fabiola Riccardini**, Istat
17.45 – 18.00   Estimating the size of the Romanian shadow economy using the minim approach
Adriana Ana Maria Davidescu, Bucharest University of Economic Studies
18.00 – 18.10   Discussion

Contributed Session 39: 17.00 – 18.10 Room 3
Statistical Literacy and Statistics as a New Skill for New Jobs

Chair: Anuska Ferligoj, ESAC, University of Ljubljana

17.00 – 17.15   National stakeholders for the European Master in Official Statistics – the Italian case
Maria Pia Sorvillo, Nereo Zamaro, Istat
17.15 – 17.30   Statistics as a new Skill for new Jobs
Barbara Ascari, **Francesco Michele Mortati**, **Marina Peci**, Istat
17.30 – 17.45   Experiences and Suggestions for Lifelong Learning in Permanent Census
Antonella Bianchino, **Giulia De Candia**, Stefania Taralli, Istat
17.45 – 18.00   Measuring university attractiveness in Italy. An analysis of the determinants of students' mobility
Francesca Giambona, Mariano Porcu, **Isabella Sulis**, University of Cagliari
18.00 – 18.10   Discussion

18.10 – 18.40 Closing cocktail

Morning 25 November 2014

Department of Statistical Sciences, Piazzale Aldo Moro 5
Library of Statistical Sciences, Room 1, 2, 3rd floor
(Please, see the map below to reach the department of Statistical Sciences)

World Statistics Café (WSC)

Extensions up to 2020 of the European Statistical Program 2013-2017:
Viewpoints, Opinions, and Expectations of Users, Methodologists and Producers

The WSC is the creative process used to facilitate collaborative discussion on the extension of the European Statistics Program 2013-17 up to 2020 and create a network of viewpoints and opinions of users, methodologists and producers of statistics.

In this process the morning of the 25 November a café ambiance is created, in which participants discuss the specific topics of the European Statistics Program in small groups around the 9 café tables.

At the end of the groups' discussions the main viewpoints and opinions are summarized and presented by the chair in a plenary session where also a plenary discussion is organized.

Follow up
After the conference, with the cooperative work of participants, ESAC and Eurostat will complete a *discussion paper* including the documents of the different tables, for the ESSC.

Programme

08.30 – 08.45   Briefing of the chairpersons of the Tables

08.45 – 11.45   **FIRST PART OF THE WSC**
Groups' discussions: 3 rounds of 60 minutes where people can move to different tables.

I round: 8.45-9.45; II round 9.45-10.45; III round 10.45-11.45

Each table has a facilitator (coordinator and moderator) of the discussion, who summarizes opinions and viewpoints.

Nine tables:
1. Indicators
2. Accounting frameworks
3. Business and global economy
4. Social statistics
5. Geospatial, Environmental, Agricultural and sectoral statistics
6. Multipurpose statistics and efficiency gains in production, dissemination
7. Quality
8. Training, Innovation and research
9. Partnership

11.45 – 13.30   SECOND PART OF WSC
11.45 – 12.45   Plenary lightning presentations of viewpoints and opinions by moderators
12.45 – 13.30   Plenary Discussion

Conference Venue

24 November 2014, morning 8.30 – 13.00
Aula Magna, Sapienza Rectorate, Sapienza University of Rome, Piazzale A. Moro 5, Morning 24 November 2014

24 November 2014, afternoon 13.00 – 18.30
Sapienza Didactic building, via Caserta 6 (7 minutes walking from Aula Magna Sapienza Rectorate to via Caserta 6)
Rooms 1, 2, 3, 4 and Roof Garden for lunches

25 November 2014, 8.30 – 18.30
Sapienza Didactic building, via Caserta 6 (7 minutes walking from Città Universitaria, Aula Magna to via Caserta 6)
Rooms 1, 2, 3,4 and Roof Garden for lunches

25 November 2014, 8.30 – 13.30 - *World Statistics Café*
Department of Statistical Sciences,
Third floor Library of Statistical Sciences
Piazzale A. Moro 5

How to get here

By car:
The Sapienza University is nearby the center of Rome. The address is the following:
Piazzale Aldo Moro, 5 Roma

From Fiumicino Airport "Leonardo Da Vinci"

by train: (recommended): The best option is to take the no-stop train "Leonardo Express" to Termini station (travel time: about 30 minutes). From Termini follow the instructions below. The train timetable and fares can be found on the TRENITALIA website . Notice: the trains from Termini to Fiumicino Airport leave from tracks 23 and 24, which are far on the right from the main entrance of the station. Allow an extra 10 minutes to get there.

by taxi: The official fixed rate (all included) from Fiumicino airport to any destination within the ancient Roman walls (Mura Aureliane), included La Sapienza campus, is 48 euros. The ride to La Sapienza campus takes about 50 minutes.
From Ciampino Airport "G. B. Pastine"

by bus (recommended): Connections to Termini station (in about 30-40 minutes) are guaranteed by the bus services operated by ATRAL,   COTRAL, SIT and TERRAVISION companies. The fare is about 5 euros. From Termini follow the instructions below.

by taxi: the official fixed rate (all included) from Ciampino airport to any destination within the ancient Roman walls (Mura Aureliane), included La Sapienza campus, is 30 euros. The ride to La Sapienza campus takes about 30 minutes.

From Termini Train Station:

From Termini station to the campus is a 15 minutes' walk. Leave the station through the right side exit (Via Marsala), and follow these directions. Alternatively take one of the taxi cabs lining outside the front entrance of the station.

Via Public Transportation:

Subway: Take the Line B and stop at Castro Pretorio. From there to the campus is a 10 minutes' walk, see directions.
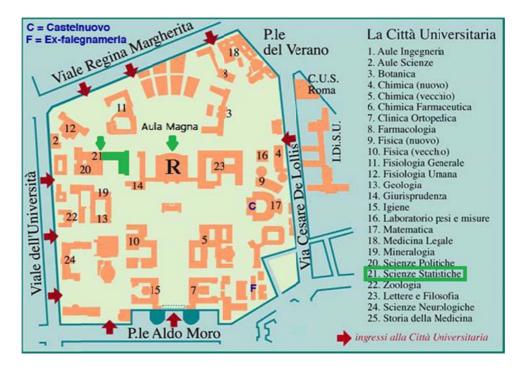
Bus: Several bus lines stops in the streets around the perimeter of the campus. The ticket price for a single journey is 1,50 euros and they need to be purchased in advance. To plan your trip visit the ATAC website.

Useful links:
Public train network
Fiumicino airport
Ciampino airport
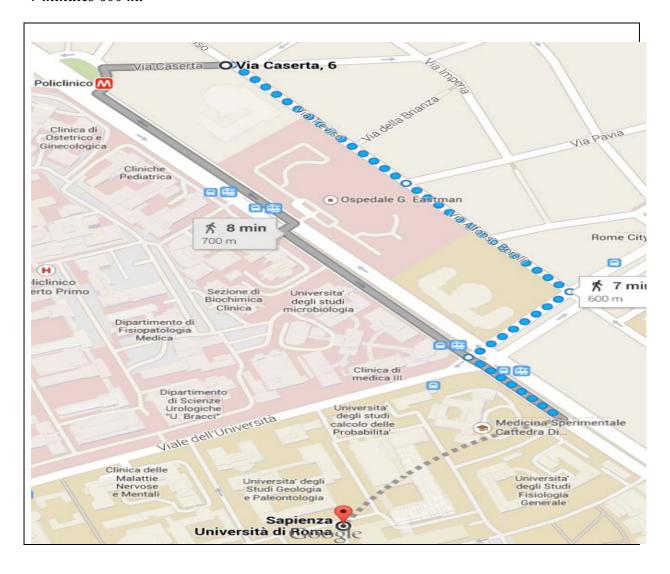Bus and subway public network

Appendix 1

How to reach the Department of Statistical Sciences (building 21) and Aula Magna (Building R) in Sapienza University of Rome, Piazzale A. Moro 5

Appendix 2

From Aula Magna, Sapienza Rectorate to Sapienza Didactic building, via Caserta 6
(All rooms are equipped with a video system projection and a wireless network).
7 minutes 600 m.

Scientific Programme
Conference of European Statistics Stakeholders
Methodologists, Producers and Users of European Statistics

24 November 2014

		PLENARY SESSIONS (Sapienza Rectorate, University of Rome, Piazzale Aldo Moro 5)	PARALLEL SESSIONS (Sapienza Didactic building, University of Rome, via Caserta 6)			
		Aula Magna	Room 1	Room 2	Room 3	Room 4
08.15 – 08.45	*Registration*					
08.45 – 09.30	**OPENING CEREMONY** Rector, Prime Minister or delegate					
09.30 – 11.10	European statistics and Europe 2020					
11.10 – 11.40	*Coffee break*					
11.40 – 13.00	**PANEL DISCUSSION** Enhancing collaboration among Statistics Stakeholders and Research for Europe 2020					
13.00–14.20		*Lunch – Roof Garden*				
14.20-15.30			**IS 1** Modernisation of Statistical Production Processes: Vision, Experiences and Challenges	**IS 2** European Statistics on Justice Systems: the Picture of a Poor Reality	**IS 3** The Challenges for Environmental Data Stakeholders	**SS 4** Spatial Statistical Methods for Official Statistics
15.30-16.40			**IS 5** Economy finance and Business Statistics for Europe 2020	**IS 6** Visualising and Communicating Statistics in the E-society	**CS 7** New Methods for Data Collection and Control	**CS 8** What Statistics can Measure and How: Defining European Statistics with a 2020 Time Horizon
16.40-17.10		*Coffee break– Roof Garden*				
17.10-18.20			**IS 9** Cross-national Surveys: Data Collection and Analysis	**IS 10** Poverty and Social Exclusion: Enhancing Capacity to Measure Employment and Social	**IS 11** The Combined Use of Administrative Sources and Statistical Surveys, an Incoming Revolution for Statistical Stakeholders	**IS 12** On the Impact of Modernisation
25 November 2014						
8.30 – 9.40			**CS 13** Analysing and Summarising Large Sets of Indicators	**CS 14** Analysis and Estimation of Survey Data	**SS 15** Methods for Analysing Big Data in the Context of Official Statistics	**SS 16** New Challenges for Improving Survey Analysis

9.40 – 10.50		SS 17 Graphical and Network Models and Analysis in the Context of Official Statistics	IS 18 New Challenges in the Analysis of Longitudinal Data	SS 19 New Challenges in Spatio-Temporal Data Modelling and Monitoring	SS 20 New Methodological Challenges for Official Statistics
10.50-11.20		*Coffee break– Roof Garden*			
11.20-12.30		IS 21 Central Banking Statistics – Expanding Production Frontiers	IS 22 Classification and Clustering	IS 23 New Challenges for Environmental and Agricoltural Statistics	IS 24 Advanced Communication for Statistics of Europe 2020
12.30-13.40		IS 25 Measuring the Progress of Europe 2020	IS 26 Methods for Analysing Complex Data	CS 27 Advances and Applications for Official Statistics	CS 28 Improving Statistical Literacy and Communication
13.40-14.40		*Lunch – Roof Garden*			
14.40-15.50		IS 29 Advances in Summarizing Large Sets of Indicators	IS 30 Statistical Literacy and Accreditation of Statistical Professionalism	CS 31 Analysing and Measuring Inequality, Poverty and Social Problems	SS 32 New challenges for Data Analysis in Official Statistics
15.50-17.00		IS 33 Data Protection	IS 34 Methods for Analysing Big Data in the Context of Official Statistics	CS 35 Statistics for Decision-making: Statistical Products and Services for an Informed Society	SS 36 Regression and Multilevel Models
17.00-18.10		IS 37 Statistics for Enhanced Economic Governance	SS 38 Construction of indicators for Measuring the Progress of Societies	CS 39 Statistical Literacy and Statistics as a New Skill for New Jobs	
18.10-18.40		*Closing cocktail – Roof Garden*			

World Statistics café

Extension up to 2020 of the European Statistical Program 2013-2017:

Viewpoints, opinions and expectations of users, methodologists and producers

Department of Statistical Sciences, Piazzale Aldo Moro 5

Library of the Department of Statistical Sciences, 3rd floor

25 November 2014	
08.30 – 08.45	Briefing of the chairpersons of the Tables
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11.45 – 12.45	Plenary lightning presentations of viewpoints and opinions by moderators (Room 5)
12.45 – 13.30	Plenary Discussion