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SAPIENZA
UNIVERSITÀ DI ROMA

Department of Statistical Sciences



CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

Methodologists, Producers and Users of European Statistics

Rome 24 | 25 November 2014

PROGRAMME





CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

Methodologists, Producers and Users of European Statistics

Rome 24 | 25 November 2014

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
Patrizia Cacioli, Istat
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>).



Morning 24 November 2014

**Aula Magna, Rectorate - Sapienza University of Rome
Piazzale Aldo Moro, 5**

08.15 – 08.45

Registration

08.45 – 09.30

Opening

Eugenio Gaudio, Rector Sapienza University of Rome
Fabio Grasso, Head of the Department of Statistical Science Authorities
Walter Radermacher, Co-organizer, Director General Eurostat
Giorgio Alleva, President Istat
Maurizio Vichi, Co-organizer, President FENStatS

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

13.00 – 14.20

Lunch

in the Roof Garden of the Sapienza Didactic building.

Transfer by walking from Aula Magna to Sapienza

Didactic building, via Caserta, 6 (600 meters, 7 minutes)



Afternoon **24 November 2014**

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

14.20 – 15.30

INVITED SESSION 1

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 Vuksan, 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

14.20 – 15.30

INVITED SESSION 2

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 García-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

14.20 – 15.30

INVITED SESSION 3

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

14.20 – 15.30

SOLICITED SESSION 4

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

Giuseppa 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



**15.30 – 16.40 INVITED SESSION 5
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

**15.30 – 16.40 INVITED SESSION 6
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

15.30 – 16.40

CONTRIBUTED SESSION 7

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

15.30 – 16.40

CONTRIBUTED SESSION 8

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

**17.10 – 18.20 INVITED SESSION 9
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 Leoncikis, 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 Pompeu 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

**17.10 – 18.20 INVITED SESSION 10
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

**17.10 – 18.20 INVITED SESSION 11
 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

**17.10 – 18.20 INVITED SESSION 12
 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

- 08.30 – 9.40** **CONTRIBUTED SESSION 1**
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 Bachtrögl, 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 Mazziotto, Adriano Pareto, Istat
- 09.30 – 09.40 Discussion

- 08.30 – 09.40** **CONTRIBUTED SESSION 14**
ROOM 2
ANALYSIS AND ESTIMATION OF SURVEY DATA
Chair: Pier Luigi Conti, Sapienza University of Rome
- 08.30 – 08.50 Streamlining data editing at Statistics Spain
Silvia Rama, **David Salgado**, Spanish National Statistical Institute
- 08.50 – 09.10 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
- 09.10 – 09.30 Pairwise likelihood estimation based on a sample of pairs
Ioulia Papageorgiou, Athens University of Economics and Business;
Iirini Moustaki, London School of Economics and Political Science
- 09.30 – 09.40 Discussion

08.30 – 09.40

SOLICITED SESSION 15

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

08.30 – 09.40

SOLICITED SESSION 16

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 Munnich, University of Trier

09.30 – 09.40

Discussion



**09.40 – 10.50 SOLICITED SESSION 17
ROOM 1
GRAPHICAL AND NETWORK MODELS AND ANALYSIS IN THE CONTEXT
OF OFFICIAL STATISTICS**

Chair: Marco Alfò, Sapienza University of Rome

- 09.40 – 09.55 Extracting association rules from two-mode networks
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

**09.40 – 10.50 INVITED SESSION 18
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

09.40 – 10.50

SOLICITED SESSION 19

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

09.40 – 10.50

SOLICITED SESSION 20

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



- 11.20 – 12.30 INVITED SESSION 21
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

- 11.20 – 12.30 INVITED SESSION 22
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

- 11.20 – 12.30 INVITED SESSION 23
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 Fassò, 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

11.20 – 12.30 INVITED SESSION 24
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

12.30 – 13.40 INVITED SESSION 25
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



12.30 – 13.40 INVITED SESSION 26

**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

12.30 – 13.45 CONTRIBUTED SESSION 27

**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, Stockholm University
- 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, WIFO; Eva Hagsten, Stockholm University

12.30 – 13.45

CONTRIBUTED SESSION 28

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 in the Roof Garden of the Sapienza didactic building



Afternoon **25 November 2014**

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

14.40 – 15.50

INVITED SESSION 29

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

14.40 – 15.50

INVITED SESSION 30

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

14.40 – 15.50

CONTRIBUTED SESSION 31

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

14.40 – 15.50

SOLICITED SESSION 32

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

15.50 – 17.00

INVITED SESSION 33

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

**15.50 – 17.00 INVITED SESSION 34
 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

**15.50 – 17.00 CONTRIBUTED SESSION 35
 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

**15.50 – 17.00 SOLICITED SESSION 36
 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, University of Milan-Bicocca; Paolo Berta, University 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

**17.00 – 18.10 INVITED SESSION 37
 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
 Kevin Costelloe, Western Europe Economy Editor, Bloomberg Rome

17.45 – 18.00 National Reform Program: Italian evidence
 Paolo Reboani, President of Italia lavoro

18.00 – 18.10 Discussion



17.00 – 18.10

SOLICITED SESSION 38

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

17.00 – 18.10

CONTRIBUTED SESSION 39

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

24 November 2014, morning 8.30 – 13.00

Aula Magna, Sapienza Rectorate, Sapienza University of Rome, Piazzale A. Moro 5,

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

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.



