



**8th Scientific Conference on
INNOVATION & SOCIETY
Statistical Methods for Evaluation and Quality
September 6th-7th 2017 Naples – Italy**

**University of Naples Federico II
Monte Sant'Angelo (Centri Comuni) – Via Cintia - Naples**

INNOVATION & SOCIETY 2017 - Statistical Methods for Evaluation and Quality (IES2017)

The Conference Innovation & Society 2017 - Statistical Methods for Evaluation and Quality (IES2017) is the 8th Scientific Meeting of the “Statistics for the Evaluation and Quality of Services Group of the Italian Statistical Society - (SVQS)”. It aims

- (i) to offer an overview of statistical approaches and methodologies for the evaluation, currently in use, in different contexts of services to human society, and
- (ii) to contribute to the discussion about the impact of the evaluation on the innovation of such services, involving the various actors of economic and social policies.

To make it as useful and constructive as possible, the Conference is open to the participation of and confrontation with scholars of other disciplines, experts, responsible managers for development policies dealing with the relationships between evaluation, innovation and society.

Official languages of the conference will be Italian and English. A good practice would be to write the PowerPoint transparencies in English so that non-Italian participants can follow also oral presentations in Italian.

Conference session topics

IES2017 session topics include, but are not limited to, the special areas of interest that exist within Statistics for the Evaluation and Quality of Services Group of the Italian Statistical Society - SVQS. The non-exhaustive list is:

- Companies & Banks
- Education and Training
- Structural Equations Models
- Models for Ordinal Data
- Open Data

- Public Administration
- Research
- Healthcare and Social Services
- Law Systems
- Transports
- Evaluation of Products and Sensorial Analysis

IES2017 - Keynote Speakers

- ✓ Giorgio Alleva, Presidente ISTAT, Italy
- ✓ Leandro Pardo, Complutense University of Madrid, Departamento de Estadística e Investigación Operativa, Madrid, Spain

Partner journals

The conference organizers will allow publishing, after a 'blind refereeing' process, full texts of the invited papers and of a selection of the contributed papers. The journals interested to host such papers are the following:

- ✓ Social Indicator Research
- ✓ Quality and Quantity
- ✓ Electronic Journal of Applied Statistical Analysis
- ✓ Statistica e Applicazioni

Information

Information about IES2017 are available at the following website:

<http://meetings3.sis-statistica.org/index.php/IES2017/IES>

For further information, write to the following address:

IES2017@unitelmasapienza.it

PROGRAM

Wednesday, 6 September 2017

- 8:30 – 9:30 Registration
- 9:30 – 9:50 *Welcome coffee*
- 09:50 – 10:00 **Welcome addresses**
 Rector of University of Naples Federico II
 Rector of University of Sannio
 Director of the Department of Economics, Management, Institutions
 University of Naples Federico II
 President of the group *Statistics for the Evaluation and Quality of Services*
 (SVQS)
 President of the *Italian Statistical Society* (SIS)
- 10:00 – 10:45 Plenary session (Chair: Luigi D’Ambra, University of Naples Federico II)
Blue Room
“Innovation in official statistics: addressing a multi-source environment”
 G. Alleva – President of Italian National Institute of Statistics
- 10:45 – 12:00 **Session 1 – University**
E3 Room - Chair: Pasquale Sarnacchiaro (University of Rome Unitelma Sapienza)
- “It is good to be the editor of an academic peer review journal: tell anyone whom to quote! ... the editor” C. Herteliu, M. Ausloos, B.V. Ileanu, G. Rotundo and T. Andrei
 “Identifying students at risk for academic failure within a construct validation framework” L. Fontanella, S. Di Zio and A. Sarra
 “First year university career and non-selective evaluation test” M. Bini and L. Masserini
 “Evaluation of Research Quality (VQR): a case study based on DINDSCAL for compositions” M.A. Di Palma, V. Simonacci, N. Trendafilov and M. Gallo
- Session 2 - Categorical Data**
E2 Room - Chair: Ida Camminatiello (University of Campania Luigi Vanvitelli)
- “Attribute quantification strategy to deal with categorical indicators in PLS path modeling” R. Romano, A. Iodice D’Enza and F. Palumbo
 “Elliptical confidence regions for multiple correspondence analysis” R. Lombardo, A. D’Ambra, I. Camminatiello and E.J. Beh
 “Data mining large contingency tables: standard approaches and a new method” S. Arsenis and M. Riani
 “How to detect indeterminacy in preference data” S. Capecchi and D. Piccolo

12:00 – 13:00

Session 3 - Tourism**Blue Room** - Chair: Piero Rostirolla (University of Naples L'Orientale)

“Quantitative methods for the economic valuation of a cultural tourism destination: the case study of the Certosa di Calci” A. di Maio, S. Ercolano, G.L. Gaeta, B. Parenti and P. Lattarulo

“A compositional methodology with external informations for free time allocation preferences” V. Simonacci, M.A. Di Palma and M. Gallo

“Perceived quality and satisfaction with tourism services: teoretical considerations and measurement challenges” Oliveri, Polizzi and Parroco

Session 4 – Health**E3 Room** - Chair: Matilde Bini (European University of Rome)

“Radon risk assessment through a multivariate geostatistical approach” C. Cappello, S. Maggio, M. Palma and D. Posa

“Multidimensional analysis of Health Oncological service in a Public Hospital” S. De Iaco, V. Distefano, S. Maggio and M. Palma

“Leadership, governance and performance of non-profit institutions: evidence from Italy” P. Ricci, Civitillo and B. Simonetti

Session 5 – Policy**E2 Room** - Chair: Biagio Simonetti (University of Sannio)

“The Evaluation of the Regional Project “ADESSO” as an Example of Multilevel Networking and Governance” L. Pagani and G. Zamaro

“Improving Regional Innovation Scoreboard. Which are the factors influencing the performance? Evidence from Italian Regions” R. Arbolino, R. Boffardi and L. De Simone

“Open government data and evaluation of use of European funds in the Campania Region” S. Mele

“Risk management for (socially) connected systems” R. Cerqueti

13:00 – 13:20

Plenary Session (Chair: Luigi D'Ambra, University of Naples “Federico II”)

BLUE Room

“*Data Analytics Architectures and Technologies: overview and adoption use cases*” M. Volpe (System Management)

13:20 – 14:30

Lunch

14:30 – 16:00

Round Table: “Amministrazione Digitale e Valutazione, quali sinergie**Blue Room****Introduzione**

Dott. Pasquale Sarnacchiaro (Università degli studi di Roma Unitelma Sapienza)

Interventi

Dott. Riccardo Bizzarri (Direttorio Nazionale ANPCI)

Prof. Amedeo Lepore (Assessore alle Attività Produttive della Regione Campania)

Prof. Donato Limone (Direttore della Scuola Nazionale Amministrazione Digitale - Università degli studi di Roma Unitelma Sapienza)

Ing. Giovanni Malesci (Ministero della Giustizia – Dirigente dell’ufficio di Coordinamento interdistrettuale dei sistemi informativi automatizzati CISIA di Napoli)

Dott.ssa Monica Scannapieco (ISTAT - Dirigente del Servizio Architettura integrata dei dati e dei processi. Direzione centrale per la metodologia e il disegno dei processi statistici)

16:00 – 16:30

Coffee break

16:30 – 17:15

Session 6 - Health (2)

E3 Room - Chair: Stefano Campostrini (University of Venezia Ca’Foscari)

“Statistical assessment of public health care services: a multilevel Latent Markov model” G.E. Montanari, M. Doretti and F. Bartolucci

“A statistical model for health care quality assessment” S. De Iaco, S. Maggio, D. Pellegrino and D. Posa

“Performance assessment in health and social services: an application” P. Renzi and A. Franci

Session 7 – Education

E2 Room - Chair: Lucio Masserini (University of Pisa)

“A better individual performance? Yes, but how?” R. Palma, A. D’Ambra and A. Crisci

“The easterlin paradox in Italy, or the paradox in measuring? Define happiness before investigating it” F. Antolini and B. Simonetti

“A statistical model for job satisfaction for teacher: a case study” P. Malafronte, P. Sarnacchiaro and S. Scippacercola

“Entrepreneurship education as a process with the support of a structural equation modelling” E. Sepe, A. Crisci, A. D’Ambra and E. Ciavolino

Session 8 - Tourism (2)

Blue Room - Chair: Claudiu Herteliu (University of Economics, Bucharest)

“Do Unesco World Heritage Sites influence international tourist arrivals? Evidence from Italian provincial data” E. De Simone, A. Di Maio and R. Canale

“How much is the Vesuvius archaeological area worth? Using the travel cost method for the assessment of a renowned tourist destination” S. Ercolano, G.L. Gaeta and B. Parenti

“How to Unlock Tourism innovation through Big Data” V. Ndou, E. Ciavolino, A.D. Al-Nasser and E. Kalem

Social Event Program – Tour of Naples and Social Dinner

17.30 Meeting point at Montesantangelo

18.00 About 2-hour sightseeing tour of Naples by bus that will arrive at Molo Beverello

20.30 Meeting point at Molo Beverello

20.45 Dinner on board the sailing ship "Tortuga", including a show.

Thursday, 7 September 2017

8:45 – 9:45

Session 9 – Transport

E3 Room - Chair: Paolo Mariani, (University of Milan Bicocca)

“The incidence of airport services in the perceptions of air passengers” - L. Antonucci, C. Crocetta, F. D. d'Ovidio, N. Firza, D. Mazzitelli and E. Toma
 “Evaluation of customer care standard of Italian airports” L. Antonucci, C. Crocetta, F.D.D'Ovidio, M. Romano. B. Simonetti and D. Viola
 “Cumulative correspondence analysis to evaluate” A. D'Ambra, A. Lucadamo and P. Amenta

Session 10 - Education (2)

E2 Room Chair: Pietro Amenta (University of Sannio)

“The evaluation of the teaching performance by the students. The role of new technologies and the virtual teaching environment” F. Rejón Guardia and G. Maraver Tarifa
 “Analyse dissimilarities on Ocse/Pisa students surveys: a case study based on compositional DINDSCAL algorithm” M.A. Di Palma, V. Simonacci, N. Trendafilov and M. Gallo
 “Software metrics between relative and absolute” I. IVAN, D. MILODIN and S. CAPISIZU

9:45 – 10:30

Plenary Session (Chair: Donato Posa, University of Salento - Lecce)

Blue Room

“A Wald-type test statistic for testing linear hypothesis in logistic regression models based on MDPD estimator” L. Pardo - Complutense University of Madrid, Departamento de Estadística e Investigación Operativa, Madrid, Spain

10:30 – 11:00

Coffee break

11:00 – 12:15

Session 11 - Statistical Methods for school students' assessment

E3 Room - Chair: Eugenio Brentari (University of Brescia)

“Value added models and anchored tests for school policy” R. Ricci
 “Gender differences in mathematics performance at Italian secondary school” M. Matteucci and S. Mignani
 “Measuring Language Proficiencies - The Case of the IPRASE-TLT 2016 Survey” M. Carpita
 “Functional ANOVA for Evaluating Cognitive Abilities and School Performance” T. Di Battista, F. Fortuna and F. Maturo

Session 12 - Customer Management

E2 Room - Chair: Corrado Crocetta (University of Foggia)

“The influence of the economic sectors for the business choice of a new hiring” P. Mariani, A. Marletta and M. Zenga

“Customer Management: The Case of BPPB” F.D. d’Ovidio, N. Firza and D. Mazzitelli

“How does innovators dna work in service systems for new entrepreneurship acceleration?” L. Cantone, P. Testa and D. Di Sarno

“Measuring the Health: A synthetic Index For Italy”: D. Tebala

Session 13 – Quality

Blue Room - Chair: Rosaria Lombardo (University of Campania Luigi Vanvitelli)

“Statistical performance analysis of the Delphi method using non-parametric methods” M. Auciello, M. Bolzan and F. Pesarin

“How to improve the Quality Assurance System” B. Bertaccini, M.A. Di Palma, G. Biagi and M. Gallo

“The measurement of Seasonality for tourism evaluation” Ferrante , Lo Magno and De Cantis

“Testing Sustainability of Current Account in Selected ASEAN and European Economies” E. Lau and N.P. Ngu

12:15 – 13:15 **Group meeting “SVQS” E4 Room**

13:15 – 14:30 *Lunch*

14:30 – 16:00 **Round table “Valutazione della Ricerca” (In Italiano)**

Bleu Room

Introduzione

Prof. Luigi D’Ambra (Dipartimento Economia, Management e Istituzioni)

Prof. Michele Gallo (Dipartimento di Scienze Umane e Sociali – Università degli studi di Napoli Orientale)

Interventi

Prof.ssa Francesca Bassi (Dipartimento di Scienze Statistiche, Università degli Studi di Padova)

Prof. Daniele Checchi (Membro del consiglio direttivo ANVUR)

Prof. Amedeo di Maio (Dipartimento di Scienze Umane e Sociali – Università degli studi di Napoli Orientale)

Prof. Giovanni Miano (Dipartimento di Ingegneria elettrica e delle Tecnologie dell'Informazione- Università degli studi di Napoli Federico II)

16:00 – 17:00 **Session 14 – BDSports: Big Data Analytics in Sports**

Blue Room – Chair: Marica Manisera (University of Brescia)

“Mixture models for analysing ranking data on sport preferences” R. Simone and M. Iannario

“Fear the underdog: New evidence regarding bookmakers’ behavior and the longshot bias” V. Candila and A. Scognamillo

“Performance Measurement of football teams by using a longitudinal model” A. Crisci, L. D’Ambra and V. Esposito

Session 15 – Economics

E3 Room - Chair: Sergio Scippacercola (University of Naples Federico II)

“Do building permits act as a leading indicator of Italy short-term construction activity?” G. Bruno and C. Corea
 “The impact on social and economic well-being of the treatment of AIDS in AFRICA. The case of Dream Project in Malawi” F. Di Leo
 “A statistical approach for the estimation of Civil engineering works in broader public sector” A. Frenda
 “The impact of financial analysts’ recommendations on stock price dynamics” A. Ferrari and R. Castellano

Session 16 –Justice

E2 Room - Chair: Tonio Di Battista (University of Chieti – Pescara)

“Dynamics and relationships in subjective and objective perceptions on crime in Italy” L. Antonucci, F.D. d'Ovidio, R. Mancarella and E. Toma
 “Statistical evidence and DNA in the criminal procedure” M. Giacalone, M.R. Giannuzzi, D. Panarello and S. Scippacercola
 “The efficiency of the Italian judicial system. A Data Envelopment Analysis approach” E. Nissi, C. Cusatelli and M. Giacalone

17:00 – 17:15

Coffee break

17:15 – 18:15

Session 17 - Sensory Data

Blue Room - Chair: Eugenio Brentari (University of Brescia)

“Checking quality of sensory data by assessing intra/inter panelist agreement” A. Vanacore and M. Sole Pellegrino
 “The Anderson statistic for sensory analysis” R. Lombardo and E.J Beh
 “RERT: a novel approach for extracting a synthetic representation from an ensemble. The case study of the Italian wine quality” E. Brentari and M. Vezzoli

Session 18 – Environment

E3 Room - Chair: Michele Gallo (University of Napoli Orientale)

“Evaluation of volcanic risk through geophysical signals at Campi Flegrei caldera (Italy)” S. Scippacercola, Z. Petrillo and A. Mangiacapra
 “An adaptive technique for energy consumption anomaly detection” G. Zazzaro, A. Martone, G. Romano and M. Ferrucci
 “Urban Driving Cycles and Vehicle Emissions Evaluation Through Statistical Analysis On Real Kinematic Data” L. Della Ragione and G. Meccariello

Session 19 – Transport

E2 Room - Chair: Enrico Ciavolino (University of Salento - Lecce)

“Using Twitter for Steel Product Prices Analysis” M. Carpita, C. Ragno and P. Zola
 “Customer service performances of aeroporti di Puglia” L. Antonucci , C. Crocetta, F. D'Ovidio and D. Viola
 “The incidence of airport services in perception of passangers” L. Antonucci, C. Crocetta, F. d'Ovidio, N. Firza, D. Mazzitelli and D. Viola

“Socio-economic determinants of inter-regional mobility in patients with cancer” M. Ferrante, V. Sciuto, S. Pollina-Addario, A.M. Parroco and S. Scodotto

18.15 - 18.30

Closing Ceremony

Scientific Program Committee

Eric Beh (University of Newcastle, Australia)
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 Giuseppe Boari (Università Cattolica, Milano)
 Flavio Boccia (Università Parthenope, Napoli)
 Mario Bolzan (Università di Padova)
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