





University of Campania "L. Vanvitelli"

Department of Economics, Gran Priorato di Malta, Capua (CE), Italy

January 27-28, 2022











Dear Colleagues,

On behalf of the organizing committee, it is a pleasure to announce that the 10th Scientific Meeting of the Research Group of Statistics for the Evaluation and Quality in Services (SVQS) of the *Italian Statistical Society*, titled IES2022 Innovation and Society 5.0: Statistical and Economic Methodologies for Quality Assessment, will be held on January 27th -28th 2022 at the University of Campania "L. Vanvitelli".

- **IES2022 - Innovation and Society 5.0: Statistical and Economic Methodologies for Quality Assessment** has the scientific finality to promote and coordinate the statistical and economic methodologies for the evaluation of a human-centered society emphasizing how statistical thinking, design and analysis may be of use to a Society 5.0, to foster advanced methodological research supporting the assessment of quality of social services, and to be a platform where the experts of Statistics, Data Mining, Data Science, Machine Learning and related disciplines meet for analysing Big Data.

Contributions based on the development of all innovative statistical methodologies as well as of all interesting applications are welcome. The subject-matter of the contributions cover the following areas (but not limited to):

Sustainability, Health, Wellness, Sport, Tourism, Education, Training and Research, Bank and FinTech, Transportation, Environment, Enterprise, Industry and Finance, E.commerce, Digital Marketing, Labour Market, Public Administration, Justice System.

The Conference is scheduled in 2 plenary sessions, 22 solicited sessions on specific topics and 11 contributed sessions. The Scientific Committee of the SIS group, the Program Committee and the Local Organizing Committee, with the support of the University of Campania "L. Vanvitelli", have contributed to the organization of this conference. We acknowledge their precious work.

We wish you a productive and stimulating conference and a pleasant stay at the University of Campania "L. Vanvitelli".

Rosaria Lombardo Chair of the Program Committee

Luigi D'Ambra Coordinator of the SVQS Group

Scientific Committee of the group of the Italian Statistical Society on Statistics for the Evaluation and Quality of Services – SVQS

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Paolo Mariani University of Milan "Bicocca"

Marica Manisera University of Brescia Monica Palma University of Salento

Pasquale Sarnacchiaro University of Rome Unitelma Sapienza

Program Committee of the conference IES 2022

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Antonello D'Ambra University of Campania "L. Vanvitelli"
Rosaria Lombardo University of Campania "L. Vanvitelli"
Elvira Romano University of Campania "L. Vanvitelli"

Luca Rossi University Cusano

Violetta Simonacci University of Naples "L'Orientale"

Practical Information

The Venue

Department of Economics, University of Campania "L. Vanvitelli" - Via Gran Priorato di Malta - 81043 Capua (CE)

Old Capua was an ancient Italian city, the greatest Roman city of south Italy. For more information about the history of Capua and suggestions for tourist itineraries in the surrounding areas, we advise you to take a look at the following sites:

https://comune.capua.ce.it/

https://it.wikipedia.org/wiki/Capua (citt%C3%A0 antica)

http://www.capuaonline.it/storiadicapua/index.html

http://www.paesionline.it/campania/capua/comune capua.asp

HOW TO GET THE CONFERENCE LOCATION

Nearest international airports:

Naples International Airport - Capodichino (NAP) about 40 km

https://www.aeroportodinapoli.it/en

Roma Ciampino - Giovan Battista Pastine International Airport (CIA) about 180 km

https://www.adr.it/ciampino

Roma Fiumicino - Leonardo da Vinci Airport (FCO) about 200 km

https://www.adr.it/fiumicino

To reach Capua from Naples, Caserta or Rome please read the information below.



Many regional trains operated by Trenitalia connect **Naples** and **Caserta** to **Capua**. The journey will take approximately 50-55 minutes from Naples, 10-15 minutes from Caserta. If you are traveling from **Rome** you can find solutions with one change, generally in Naples or Cassino.

You can schedule your itinerary using the Italian railways website available here.



Several bus lines connect Caserta and Naples to Capua. Some options are provided below, organized by departure location.

We still strongly suggest you <u>plan your itinerary</u> and check up-to-date timetables through the Moovit App/website (click here) prior to your journey.

Connections from CASERTA (railway station)

Bus lines operated by AIR mobilità- Linee Provinciali Caserta (<u>click here</u> for timetables in Italian)

- **01-CE**, (around 50 minutes)
- **07-CE** (around 30 minutes)
- **05-CE** (around 40 minutes)

Bus line provided by A.T.C. Azienda Trasporti Campani Srl (<u>click here</u> for the timetable in Italian)

• **ATC Capua - Pier Delle Vigne** (around 35 mintes)

Connections from NAPLES (railway station and airport)

Bus line operated by AIR mobilità- Linee Provinciali Caserta

06-CE direction Capua - Piazza D'Armi (approximately 1 hour).

The nearest stop to the Naples railway station is Corso Meridionale. A Capodichino airport stop is also available. The timetable in Italian can be found here

Bus line provided by A.T.C. Azienda Trasporti Campani Srl

• ATC Capua - Pier Delle Vigne (approximately 1 hour and 30 minutes)

The nearest stop to the Naples railway station is C.so Garibaldi - P.zza Principe Umberto. A Capodichino airport stop is also available. The timetable in Italian can be found here.

** Direct bus lines from ROME are not available **

Fares:

- For all bus lines from **Caserta to Capua** the fare is ≤ 2.00 (single ride). An alternative integrated fare of ≤ 2.40 (UNICO AC2) is also available if you need to use additional transportation within the Caserta-Capua areas (bus or metro). The integrated ticket is valid for 160 minutes.
- For all bus lines from **Naples to Capua** the fare is \in 3.40 (single ride). An alternative integrated fare of \in 4.30 (UNICO NA4) is also available if you need to use additional transportation within the Naples-Capua areas (bus or metro). The integrated ticket is valid for 160 minutes.

<u>Purchasing tickets:</u>

Bus tickets can be purchased from authorized retailers (newsstand, bars, tobacco shops, travel agencies). Integrated tickets can also be purchased in advance on the Unico Campania App available here.



From NAPLES:

From the airport: Take highway A56 from via Salomone, at the fork follow signs towards Roma/Bari and merge onto highway A1/E45. Take the exit towards Santa Maria Capua Vetere, merge onto via Galatina/SP4 and, at the roundabout, follow signs for SS7. This road will take you to the center of Capua (via Napoli).

From the railway station: Take the road SS162dir from Via Emanuele Gianturco (signs for SS162 bis/Pomigliano d'Arco/Ottaviano) then take the exit onto A1/E45 towards Rome. Take the exit towards Santa Maria Capua Vetere, merge onto via Galatina/SP4 and, at the roundabout, follow signs for SS7. This road will take you to the center of Capua (via Napoli).

From CASERTA (railway station):

Take the road SS7 from Viale Vittorio Veneto. This road will take you to the center of Capua (exit via Napoli).

From ROME:

Follow the highway A1/E45 towards Napoli and take the exit towards Capua.

https://goo.gl/maps/n8yypqSH2nnUSooK6

Other Information

IES 2022 Social Dinner

The Social Dinner will take place in Caserta at 20.30, on Thursday January 27th. Details about the place will be given online one week before the conference. The cost of the Social Dinner is not included in the conference fees. Social Dinner tickets can be purchased at the registration desk subject to availability.

Structure of the Sessions

Plenary Session 35' minutes talk, 10' floor discussion. Solicited Session (SS) 15' minutes talk, 5' floor discussion. Contributed Session (SCL) 15' minutes talk, 5' floor discussion.

Coffee break and Lunch

Coffee breaks and lunches will take place in the first floor corridor in front of the room "Aula Magna" of the Conference venue.

Plenary sessions and SVQS Assembly

Plenary sessions and SVQS Assembly will take place in the room "Aula Magna" at first floor of the Conference venue.

Solicited and Contributed sessions

Solicited and Contributed sessions will take place in the rooms E, H, L (ground floor) M and Aula Magna (first floor) of the Conference venue.

Internet WI-FI

A free WI-FI connection is available at the Conference venue.

TAXI

If you need Taxis you can call it by Radiotaxi (phone): (+39) 0823322400 or (+39) 338 7484418 or (+39) 3297874563 or (+39) 320 341 6341

Thursday January, 27th

8.00-9.00 Ground Floor

Conference Registration

9.00-9.30 room Aula Magna -first floor-

Welcome Address and Plenary Session

Gianfranco Nicoletti – Rector of University of Campania "L. Vanvitelli"

Riccardo Macchioni – Pro-Rector of University of Campania "L. Vanvitelli"

Maria Ciocia - Head of the Economics Department Luigi D'Ambra - Coordinator of SVQS Group Corrado Crocetta - President of the Italian Statistical Society

Rosaria Lombardo – Chair of IES 2022 Programme Committee

9.30 – 10.15, room Aula Magna- first floor

Chair: R. Lombardo

PLENARY SESSION

Invited Speaker: Michel van de Velden – University Erasmus, Rotterdam

Title: A general framework for implementing distance measures for categorical variables

10.15 – 10.45, corridor space- first floor-

COFFEE BREAK

10.45 - 11.45, room M -first floor-

SS1 - Compositional Data Analysis

Organizer and Chair: G. S. Monti

Compositional Data and graph theory

C. Rieser and P. Filzmoser

Compositional deviations from linear and non-linear equilibria

J. J. Egozcue, V. Pawlowsky-Glahn and A. Buccianti

The knockoff filter for FDR control in robust ZeroSum regression in microbiome analysis

G. S. Monti and P. Filzmoser

10.45 - 11.45, room H - ground floor-

SS2 - Monitoring progress towards SDGs: statistical approaches and methods for measuring poverty, inequalities and food insecurity

Organizer and Chair: L. Secondi

Poverty indicators adjusted using local price indexes *S. Marchetti, C. Giusti, M. Pratesi and L. Biggeri*

Assessing the targeting of the anti-poverty measure "Reddito di Cittadinanza" using Small Area Estimation methods

G. Tonutti, G. Bertarelli, C. Giusti and M. Pratesi Household consumption and food insecurity in Mexico: COVID19 and sustainable development A. Vargas-Lòpez and L. Secondi

10.45 - 11.45, room E -ground floor-

SCL1 - Big Data- Proximity data- Multi way data Chair: D. Vicari

Forecasting Traffic Flows with Complex Seasonality using Mobile Phone Data

R. Metulini and M. Carpita

CP decomposition of 4th-order tensors of compositions

V. Simonacci, T. Menini and M. Gallo

A strategy of analysis of symmetry and skew-symmetry in asymmetric relationships

G. Bove

10.45 - 11.45, room L -ground floor-

SCL2 - Industry and Society

Chair: G. Scepi

Toward an early detection of SME's default with websites' indicators

L. Crosato, J. Domenech and C. Liberati

Italians' Culture and Values after two years of pandemic

R. Angelone

Thematic evolution of Academic Medical Centers' research: a focus on Italian public owned AOUs in metropolitan areas

M. Aria, C. Cuccurullo, L. D'Aniello and M. Spano

11.45 - 13.00, room M -first floor-

${\bf SCL3-Society\ and\ Tourism}$

Chair: E. Zavarrone

Local clustering coefficient to measure intra-regional tourism in Italy

R. Rondinelli, L. Palazzo and R. Ievoli

Challenges for the Post-Covid Tourism: the Perspective of Tourism Managers

E. Zavarrone, M. Friel and A. Forciniti

Sustainable tourism: The case of Albania

N. Firza

Threshold-based Naïve Bayes Classifier Customer Satisfaction evaluation

M. Romano, G. Zammarchi and C. Conversano

11.45 - 13.00, room H -ground floor-

SCL4 - Society and Innovation

Chair: M. Misuraca

Migrant Integration Policy Index (MIPEX): an analysis of countries via Gaussian mixture model-based clustering

E. Seri, L. S. Alaimo, E. di Bella, R. Cataldo and A. Piscitelli

The measure of the BES: a proposal for the aggregation of the indicator education and training *L. Rossi and S. Daddi*

Monitoring consumer sentiment using control charts *M. Marino, R. Mazza, M. Misuraca and A. Stavolo*

11.45 - 13.00, room E -ground floor-

SS3 - Statistical methods for the assessment of student careers in higher education.

Organizer and Chair: M. P. Vitale

Predicting university students' churn risk

M. La Rocca, M. Niglio and M. Restaino

Discovering archetypal universities in Italian higher education mobility flows

I. Primerano, F. Santelli and C. Usala

Measuring quality of students' careers in Higher Education: a systematic literature review

C. Cascella and G. Ragozzini

Estimating the peers effect on students' university choices

M. Porcu, I. Sulis and C. Usala

13.00 – 13.45, open corridor

LUNCH BREAK

13.45 - 14.45, room M -first floor-

SS4 - Conformity assessment and quality predictions- itENBIS-

Organizer and Chair: A. Vanacore

Testing the predictive performance of multi-class classifiers

A. Vanacore, M. S. Pellegrino and A. Ciardiello

Optimal Subgrids from Spatial Monitoring Networks *R. Borgoni, Gilardi A. and D. Zappa*

Extension of the JCGM 106:2012 - Conformity assessment of multicomponent items and finite statistical samples

F. Pennecchi and I. Kuselman

9533.13.45 – 14.45, room H – ground floor-

SS5 - Big Data and Large-dimensional Data Organizer and Chair: S. Mignani

ROBOUT: a conditional outlier detection methodology for large-dimensional data *M. Farnè and A. Vouldis*

Behaviours, emotions and opinions in modern citizen or customer relationship systems: a correct integration of small and big data for hyper-targeting, personal advertising and look-alike

F. Camillo

A model for assessing sea environmental quality *I. Camminatiello and A. Lucadamo*

13.45 - 14.45, room E -ground floor-

SS6 - Health Quality

Organizer and Chair: P. Mariani

The uneasiness index in a patient-designed quality of life questionnaire.

B. Bartolini, S. Bertoldi, L. Benedan, C. Galeone, P. Mariani, F. Sofia and M. Zenga.

Assessing the Quality of Life of patients with Epidermolysis Bullosa (EB): Development of a patient-centered questionnaire

L. Benedan, M. E. Hachem, C. Galeone, P. Mariani, C. Pilo and G. Tadini

Survival analysis in a business context: how to control the abandons of my subscribers

A. Marletta and M. Morandi

13.45 – 14.45, room L –ground floor-

SCL5 - Assessing Performance Chair: C. Davino

Political performance measuring and tracking through a system based on the Political Performance Indicator (Iep): Naples 2021 case

G. di Trapani

A class of case-mix adjusted probability-based indices for performance evaluation

G. E. Montanari and M. Doretti

An ultrametric model to build a Composite Indicators system

C. Cavicchia, P. Sarnacchiaro, M. Vichi and G. Zaccaria

14.45 - 16.00, room M -first floor

SCL6 - Statistical Learning

Chair: M. Aria

Feature definition for NBA result prediction through Deep Learning

M. Migliorati and E. Brentari

An application of contrast trees for mortality models diagnostic and boosting

S. Levantesi, M. Lizzi and A. Nigri

Twenty Years of Random Forest: preliminary results of systematic literature review

M. Aria, A. Gnasso and L. D'Aniello

A study on the GEV activation function for classification of class imbalance data H. Park, J. Hong

14.45 – 16.00, room H –first floor

SCL7 - Society and Disparity

Chair: P. Sarnacchiaro

The gender gap in lifespan disparity as a social indicator of international countries: A fuzzy clustering analysis approach

L. S. Alaimo, P. D'Urso and A. Nigri

Modelling scale effects via a Bayesian approach: an application to decision making in public sector

M. Iannario and C. Tarantola

Board Gender Diversity and Social engagement: evidence from the banking industry

L. M. Daniele, F. Gangi and M. Coscia

14.45 – 16.00, room E –ground floor-

SCL8 - Education

Chair: M. Bini

Assessing heterogeneity in students' performance. The case of the Massive Open Online Courses

C. Davino and G. Lamberti

Assessing undergraduate students' perceptions of distance learning during the COVID-19 pandemic *I. Primerano, M. C. Catone, G. Giordano and M. P. Vitale*

PhD satisfaction analysis in Italian University via Classification tree, Bagging and Random Forest *A.Crisci, A. Lucadamo and P. Amenta* Comparative Analysis of Student Learning: Technical, Methodological and Result Assessing of PISA-OECD and INVALSI-Italian Systems *S. Cervellera, C. Cusatelli and M. Giacalone*

16.00 -17.00, room Aula Magna –first floor

SVQS member MEETING-"ASSEMBLEA del gruppo SVQS"

17.30 -18.30 Visit to "Museo Campano" Capua (to be confirmed) 20.30 -SOCIAL DINNER – CASERTA (to be confirmed)

Friday January, 28th

9.00 -10.00, room M -first floor-

SS7 – SEM with PLS: Theory and Applications Organizer and Chair: E. Ciavolino

PLS-SEM basics and its potential applications: A quick journey

J. Cheah and J. L. Roldan

A PLS-SEM confirmatory composite analysis for football goalkeeper's performance validation *M. Cefis and M. Carpita*

Text-mining and PLS-SEM combination to measure food satisfaction with Google Review: When the gut (re)counts!

P. Pasca, M. Misuraca, A. Meloni and E. Ciavolino

9.00 -10.00, room H -ground floor-

SS8 - Applications of non standard statistical tools to real-life

Organizer and Chair: A. D'Ambrosio

A robust strategy for building a financial portfolio *C. Iorio and G. Pandolfo*Conditional copula a financial application *M. N. Ruscone and G. De Luca*Explaining Student Satisfaction Assessments: A Natural

Language Processing Approach

M. Ortu, L. Frigau and G. Contu

9.00 -10.00, room E -ground floor-

SS9 – Innovation and Value Co-creation in Society Organizer and Chair: A. De Chiara

The smart working towards a Society 5.0 *S. Mauro*

Innovative interaction in Society 5.0: insights from the cultural sector

E. Del Vacchio, F. Carignani, C. Laddaga and F. Bifulco Society 5.0: a bibliometric analysis A. D'Auria and A. De Chiara

10.00 -10.45, room Aula Magna – first floor

Chair: M. Carpita

PLENARY SESSION
Invited Speaker: Maurizio Vichi –University of
Rome "La Sapienza"

Title: Strengthening the needs and quality of statistics in Europe and Italy: the indications of ESAC and COGIS

10.45 - 11.15, open corridor

COFFEE BREAK

11.15 -12.15, room M -first floor-

SS10 - Statistical learning for mainstream press, health and fiscal data

Organizer and Chair: C. Conversano

The regression trunk model for partitioning Italian municipalities based on their fiscal capacities and its determinants *A. Baldassarre and D. Carullo*

An analysis of Italian healthcare mobility through a depth-based clustering procedure *G. Pandolfo and C. Iorio*Automatic Fake News Detection to Ensure Quality of News Articles *Bonaventure F.P. Dossou and Adalbert F.X. Wilhelm*

11.15 -12.15, room H -ground floor-

SS11 – Multi-way Methods for Evaluation Service Organizer and Chair: M. Gallo

Multiple factor analysis with external information on PISA survey data

V. Simonacci, M. Marino, M. G. Grassia and M. Gallo
A three-way analysis of well-being in Italy over time
L. Bocci and D. Vicari

Multiway approach for clustering time series with time varying parameters

R. Cerqueti, R. Mattera and G. Scepi,

11.15 -12.15, room E -ground floor-

SS12 - Assessment of Management Quality Organizer and Chair: C. Fiondella

Using partial triadic analysis for depicting the temporal evolution of Italian private healthcare organizations

A. Belfiore, C. Cuccurullo and M. Aria

The Relationship between Minority Directors and Earnings Management: an empirical analysis in the Italian institutional setting

P. Fera, N. Moscariello, M. Pizzo and G. Ricciardi

Management of the human factor into the company. An experience from the aeronautic sector.

L. Bollani, A. Celegato, F. Barbero and F. Fontemaggi

12.15 -13.15, room M -first floor-

SS13 - New technologies for students learning assessment and evaluation

Organizer and Chair: A. Iodice D'Enza

A non parametric cognitive diagnostic method in classroom assessment conditions

E. Themelis and A. Markos

Hybrid unfolding models to Likert-scale data to assess distance learning perception in higher education

M. Iannario, A. Iodice D'Enza and R. Romano

Classification of Statistics learners using multidimensional latent class IRT model and archetypal analysis: the ALEAS app

D. Pacella, R. Fabbricatore, C. Galluccio and F. Palumbo

12.15 -13.15, room H -ground floor-

SS14 - Labor Market and Enterprises

Organizer and Chair: L. Masserini

The effects of foreign ownership of business on Italian employment

A. Zeli, M. Bini and L. Nascia

Searching for new trends and dynamics in Labour Market: a statistical approach for the recruiting process

*G. Maggioni, P. Mariani, A. Marletta and M. Zenga*A new definition of the professional figure Open

A new definition of the professional figure Oper Manager

P. Bruttini, P. Mariani, A. Marletta, L. Masserini and M. Zenga

12.15 -13.15, room E -ground floor-

SS15 - Statistical Approaches to Environmental Sustainability

Organizer and Chair: A. Piscitelli

Measuring sustainability as an emergent property of whole system dynamics

R. Aspinall

Tourism sustainability in the Italian regions: a fuzzy approach

L. S. Alaimo and G. Finocchiaro

How young people perceive environmental issues, react to ecological concerns and commit themselves to sustainable behaviours

A. M. D'Uggento

13.15 -14.15, open corridor

LUNCH BREAK

14.15 -15.15, room M -first floor-

SS16 - Statistical Methods for Environmental, Natural Resources and Health Assessment.

Organizer and Chair: A. Pollice

Spatial-ARFIMA models for the statistical analysis of environmental lattice processes

A. Ferretti, L. Ippoliti and P. Valentini

A Bayesian non parametric approach for bias correction for underreported data

S. Arima, G. Pasculli and S. Polettini

Assessment of the impact of anthropic pressures on the Giglio island meadow of Posidonia oceanica G. J. Lasinio, G. Mastrantonio, A. Pollice, D. Ventura, G. Mancini and G. Ardizzone

14.15 - 15.15, room H - ground floor-

SS17 - Functional Data Analysis Methodologies for Quality Assessment

Organizer and Chair: E. Romano

Improving the quality of questionnaires via the combined use of functional outlier detection and Item Response Theory

F. Fortuna, F. Maturo and T. Di Battista

Assessing government effectiveness over time: a functional data analysis approach

A. Naccarato, F. Fortuna and S. Terzi

Mining Distributed Acoustic Sensing data for vehicle traffic monitoring *Balzanella and R. Verde*

14.15 - 15.15, room E - ground floor-

SS18 – Evaluation and assessment of cognitive and learning processes

Organizer and Chair: F. Palumbo

Neuropsychological Assessment supported by Technology: the E-BTT case

M. Ponticorvo and T. Argiuolo

Introducing OpenAi-ES in Interactive Data. Clustering with R-EVOK

N. Milano and O. Gigliotta

Modeling heterogeneity in student's satisfaction during the Covid-19 pandemia

C. Davino, M. Gherghi, F. Palumbo and D. Vistocco

15.15 -16.15, room M -first floor-

SS19 – Substainability and Environment Organizer and Chair: I. Camminatiello

Partitioning the Cressie-Read divergence statistic for three-way contingency tables: a study on environmental sustainability data.

R. Lombardo and E. J. Beh

Analysis of maximum precipitation in Thailand using non-stationary extreme value models

T. Prahadchai, J. Hong, P. Busababodhin and J-S Park Assessing citizens' participation to urban transformation: a review of quantitative methods M. Tregua and M. Scaglione

15.15 -16.15, room H -ground floor-

SS20 - Statistical methods for health and environmental impact assessment

Organizer and Chair: F. Maturo

Density estimation via Functional Data Analysis S. A. Gattone and T. Di Battista

A new multivariate functional ANOVA approach for assessing air quality data amid COVID-19 pandemic *A. Evangelista, C. Acal, A. M. Aguilera, A. Sarra, T.*

Di Battista and S. Palermi

Conformal Prediction for Geographically Weighted Functional Regression models: an application for environmental impact assessment.

A. Diana, E. Romano and A. Irpino

15.15 -16.15, room E -ground floor-

SS21 - Local sustainability assessment: challenges in building quality indicators Organizers and Chairs: F. Fortuna and A. Naccarato

Urban Sustainability Assessment: A Proposal for an Index Based on SDGs' Indicators

E. Grimaccia

Between and Within Country Inequality in Regional Well Being

P. Liberati and G. Resce

Equitable and sustainable well-being over time: a functional approach

T. Di Battista, E. Nissi and A. Sarra

15.15 -16.15, room L -ground floor-

SCL9 - Health and Covid-19 Chair: P. Amenta Twitter about COVID-19: An application of Structural Topic Models to a sample of Italian tweets

N. Cao, A. Calcagnì and L. Finos

Assessing the quality of a health service through the risk profile number (RPN)

C. Parretti, R. Tartaglia, G. Sbrana, M. Mandò and S. Pacchi

The insurance premium structure for a covid-19 insurance policy

G. Di Lorenzo, G. Franchetti and M. Politano

16.15 -17.30, room M -first floor-

SS22 - Statistics, culture and tourism

Organizer and Chair: M. Manisera

Data science for Brescia: Arts and Cultural Places *M. Manisera, M. Carpita, P. Zuccolotto, M. Trentini, A. Piscopo and S. Karadjov*

How data can influence the promotion and the consumption of cultural experience

P. Cristiani

Mobile phone data to monitor the impact of social and cultural events of Brescia

M. Carpita, M. Manisera and P. Zuccolotto

Analysing opinions on sustainable tourism in the Vallo di Diano area, Campania, Italy

S. Capecchi G. Quaranta and R. Salvia

16.15 -17.30, room H -ground floor-

SCL10- Time Series data, Panel data and Circular Economy

Chair: A. D'Ambra

Testing the Participation Gap Inclusion within the Wage Phillips Curve

D. Scaccabarozzi, D. Toninelli, D. Zurlo, F. Bacchini and R. Iannaccone

Multisource approach for trends evaluation. An application at the agricultural sector

D. Fusco, M. A. Liguori and V. Moretti

A permutation test on the relationship between Circular Economy and firm size

S. Bonnini and M. Borghesi

Circular economy and business models: a literature review

F. Izzo, S. Mele and V. Tomnyuk

16.15 -17.30, room E -ground floor-

SCL11 -Modelling Extreme Values -High dimensional time series data

Chair: V. Simonacci

Modeling extreme values using the r-largest four parameter distribution

Y. Shin, P. Busababodhin and J-S. Park

Classification of ECG signals based on functional data analysis and machine learning techniques

M. Sabri, F. Maturo, R. Verde, J. Riffi and A. E. Yahyaouy Determining shape parameters in a climate multimodel ensemble

J-S. Park, Y. Shin, Y. Shin and J. Hong

17.30 -18.00, room Aula Magna – first floor-

CLOSING CERIMONY