

Wednesday, September 8, 2010

8:30 Registration starts

9:00-9:30 Opening ceremony

Room: 0.18

E. Cerbai (Vice-Rector for Research of the University of Firenze), S. Salvini (Head of the Department of Statistics “G. Parenti”), C. Weihs (President of GfKI), F. Palumbo (Vice-President of CLADAG)

9:30-10:45 Contributed sessions

01 Achievement and research

Chair: C. Rampichini Room: 0.04

F. De Battisti, S. Salini

Bibliometric indicators for statisticians: critical assessment in the italian context

I. Sulis, M. Porcu

Measuring the effect of cultural capital on students' achievement

E. Zavarroone

Formative measurement model for academic reputation

02 Applications in economics

Chair: A. Giommi Room: 0.05

F. Cipollini, C. Ferretti, P. Ganugi, M. Mezzanzanica

Discrete and continuous time mover-stayer model for labour market in a small northern Italian area

A. A. Romano, G. Scandurra

Electricity consumption and gross domestic product in the Italian regions

03 Dimension reduction

Chair: I. Morlini Room: 0.18

S. Borra, A. Di Ciaccio

Variable selection in a predictive approach

K. Luebke, C. Weihs

Adaptive linear dimension reduction in a classification setting

R. Rocci, S. A. Gattone

Dimensional reduction and clustering of functional data

04 Environmental data analysis and classification

Chair: A. Petrucci Room: 0.07

E. Di Giuseppe, G. Jona Lasinio, M. Pasqui, S. Esposito

Functional clustering of temperature and precipitation data for Italian climate zones determination

E. Nissi, A. L. Sarra, S. Palermi, G. De Luca

The application of M-function analysis to the geographical distribution of earthquake sequence

A. Plaia, M. Ruggieri, F. Di Salvo, G. Agro

*From a multivariate spatio-temporal array to a multipollutant - multisite air quality index***05 Applications in demography**

Chair: S. Salvini Room: 0.06

S. Bozza, M. Di Bacco, R. Bigazzi, S. De Iasio

Analysis of the individual variability of sex ratio with hierarchical models

S. Korenjak-Cerne, N. Kejzar, V. Batagelj

Clustering of population pyramids presented as histogram symbolic data

D. Vignoli, A. Mattei, A. Gottard

*Modeling fertility and education in Italy: time-variant or invariant unobserved heterogeneity component?***10:45-11:15 Coffee break****11:15-12:45 Specialized sessions****A Challenges and advances in statistical spatial data analysis**

Chair: A. Petrucci Discussant: A. Ultsch Room: 0.04

M. Behnisch, A. Ultsch

Urban knowledge discovery – Swiss population development by 15 decades

B. Cafarelli, A. Pollice, G. Jona Lasinio

Agronomic field grain property maps by geoadditive models: a comparison of different spatial correlation structures

M. Pratesi, S. Marchetti, C. Giusti, N. Salvati

Spatial model in small area estimation: an M-quantile approach

B Robust statistical methods for data analysis: methodological innovations and applications

Chair: L. Grossi Discussant: G. Ritter Room: 0.07

G. Cavaliere, I. Georgiev

Exploiting infinite variance through dummy variables in an AR model

D. Ferrari, D. La Vecchia

On robust estimation via pseudo-additive information

R. Hable, A. Christmann

*Robustness versus consistency in ill-posed classification and regression problems***C Web data mining**

Chair: A. Geyer-Schulz Discussant: F. Palumbo Room: 0.18

F. Camillo, F. Neri

Monitoring the web sentiment, the Italian Prime Minister's case

W. Gaul

Web page importance ranking

Thai-Nghe Nguyen, Z. Gantner, L. Schmidt-Thieme

*Evaluation metric for learning from imbalanced data based on asymmetric beta distribution***12:45-14:15 Lunch****14:15-15:30 Contributed sessions****06 Handwriting and web analysis**

Chair: W. Gaul Room: 0.05

S. Bozza, F. Taroni, R. Marquis, M. Schmittbuhl

The evaluation of handwriting evidence: multi-level models for determining authorship

R. Kenett, S. Salini

Relative linkage disequilibrium in tracking web search patterns

K. Silachan, P. Tantatsanawong, C. Lursinsap

Bayesian classification tree for statistical user web-URL categories navigation pattern model

07 Applications to sociology and market

Chair: R. Decker Room: 0.06

M. De Castris, G. Pellegrini

Integrating the spatial dimension into propensity score matching to evaluate regional impact of capital subsidies

C. Paccagnella, R. Varriale

Asset ownership of the elderly across Europe: a multilevel latent class analysis to segment country and households.

M. T. Santoro, S. Staffieri

*Restructuring and innovations on the survey "capacity of collective tourist accommodation" and their impact on the process quality***08 Discrete data**

Chair: C. Rampichini Room: 0.04

P. A. Ferrari, A. Barbiero

Generating ordinal data

P. Giudici, E. Raffinetti

*Gini measure: its decomposition proposal in the discrete case***09 Classification methods**

Chair: F. Palumbo Room: 0.18

H. Hruschka

Restricted Boltzmann machines for market basket analysis

A. Irpino, M. R. Guaracino, R. Verde

Classification of chunked data using proximal vector machines and singular value decomposition

N. Louw

*Robust kernel Fisher discriminant analysis with weighted kernels***10 Time series and spatial analysis**

Chair: M. Vichi Room: 0.07

C. Drago, G. Scepi

Clustering and forecasting beanplot time series

M. Mucciardi, P. Bertuccelli

Local analysis of spatial relationships: a comparison of GWR and OLS method

L. Spezia

Classification of spatio-temporal series and hidden Markov models

15:30-16:30 First plenary session

Chair: G. Ritter Room: 0.18

M. Weber, S. Röblitz, F. Haack

Adaptive spectral clustering in molecular simulation

16:30-17:00 Coffee break

17:00-18:30 Specialized sessions

D Opinion mining and preference analysis

Chair: R. Decker Discussant: P. Giudici Room: 0.04

G. Giordano

On the use of multivariate multiple regression models in the elicitation of consumer preferences

M. Iannario, D. Piccolo

A model-based approach for qualitative assessment in opinion mining

D. Schindler, L. Lüpke

Preference analysis for durable goods – Some remarks on data consistency and empirical results

E Recent developments in recursive partitioning methods

Chair: M. Pillati Discussant: B. Lausen Room: 0.07

H.-H. Bock

An iterative fuzzy and time-dynamic clustering approach for time series

C. Conversano

Evaluating the performance of different sets of classifiers in multiclass learning

R. Siciliano

Recursive partitioning of complex data for classification and regression trees

F Statistical signal analysis

Chair: C. Weihs Discussant: R. Verde Room: 0.18

M. Eichhoff

Musical instrument detection based on extended feature analysis

K. Friedrichs, C. Weihs

Auralization of auditory models

E. Romano, A. Irpino

Spatially constrained curve clustering: a hierarchical approach to signals analysis

From 19:30 Welcome at “Palazzo Medici Riccardi”

Thursday, September 9, 2010

8:30-9:45 Contributed sessions

11 Advances in latent class modelling

Chair: L. Grilli Room: 0.18

F. Bartolucci, F. Pennoni, L. Pieroni

A latent class version of the inverse probability-to-treatment weighted estimator for dynamic causal effects

B. Grün, K. Hornik

Finite mixture modeling of censored longitudinal data

R. Varriale, J. K. Vermunt

Determining the number of components in multilevel mixture (factor) models

12 Clustering and dissimilarities

Chair: G. Soffritti Room: 0.04

L. Cutillo, A. Carissimo, D. di Bernardo

Optimal length choice in top k ordered lists aggregation

B. Fichet

Recognition of ultrametrics and tree-metrics in optimal time

I. Morlini, S. Zani

A dissimilarity measure between two hierarchical clusterings

13 Customer satisfaction and conjoint analysis

Chair: L. Fabbris Room: 0.05

G. Boari, G. Cantaluppi

Unveiling non-linear relationships between perceived satisfaction and quality

A. De Luca

Ordinal logistic regression for the estimate of the response functions in the conjoint analysis

P. Kurz, A. Sikorski

Individual self balancing conjoint (ISBC): an adaptive design technique for choice based conjoint

14 Recent trends in classification

Chair: A. Hardy Room: 0.07

A. Balzanella, R. Verde, Y. Lechevallier

Clustering highly evolving data streams

G. Cabanes, Y. Bennani

Extending SOM with efficient estimation of the number of clusters

D. C. Porumbel, J. K. Hao, P. Kuntz

A classification approach for structure discovery in search spaces of combinatorial optimization problems

15 Regression and factor analysis

Chair: R. Siciliano Room: 0.06

R. Calabrese, S. A. Osmetti

Generalized extreme value regression in rare events

J. Ohrvik, G. Schoier

*On the use of bootstrap in factor analysis***9:45-10:45 Second plenary session**

Chair: M. Vichi Room: 0.18

A.-L. Boulesteix

*Critical issues and developments in microarray-based prediction***10:45-11:15 Coffee break****11:15-12:45 Specialized sessions****G Classification in systems biology I**

Chair: B. Lausen Discussant: M. Marchi Room: 0.18

A. Benner

Penalized likelihood approaches for high-dimensional model selection

E. Dreassi

A shared components model to detect uncommon risk factors in disease mapping

M. Metodiev

*Making sense of large-scale proteomics datasets: myths, facts, and challenges associated with the analysis and statistical evaluation of protein ID and abundance data***H Data stream mining**

Chair: A. Irpino Discussant: C. Weihs Room: 0.04

A. Balzanella, R. Verde

Clustering highly evolving data streams

F. Clerot, P. Gouzien

Information-based data stream summary

K. Tschumitschew, F. Klawonn

Tests for change detection based on incremental quantile estimation

I Data visualization

Chair: R. Rocci Discussant: C. Hennig Room: 0.07

A. Gribov, A. Unwin

Visualization of clustering comparisons with confusion matrices in Seurat

J. Mucha, H.-G. Barte

Visualisation of cluster analysis results

L. Scrucca

*Some recent advances on dimension reduction for high-dimensional data***12:45-14:15 Lunch****14:15-15:30 Contributed sessions****16 Biomedical applications**

Chair: T. R. Lee Room: 0.18

D. De March, I. Poli

Evolutionary neural networks to design synthetic proteins

M. Ouedraogo, F. Lecerf, S. Lê

Understanding co-expression of co-located genes using a PCA approach

I. Rocchetti

*Modeling delay to diagnosis for amyotrophic lateral sclerosis: under reporting and incidence estimates***17 Developments in archetypal analysis**

Chair: F. Palumbo Room: 0.04

S. Corsaro, M. Marino

Archetypal analysis for interval valued data

M. R. D'Esposito, F. Palumbo, G. Ragozini

Archetypal analysis for prototype identification

M. Eugster, F. Leisch

*New features for archetypal analysis in R***18 Model selection**

Chair: H.-H. Bock Room: 0.07

B. Bertaccini, F. Polverini

Automatic detection of outliers in linear regression models: the forward search approach

D. Facchinetto, S. A. Osmetti

Estimating the gap of the forward search via censored sampling

R. Savona, M. Vezzoli

Assessing model accuracy using a two-dimensional loss function

19 Proximity data and hierarchies

Chair: I. Morlini Room: 0.06

L. Bocci

Multi-objective genetic algorithm based clustering for dissimilarity data

M. Cadoret, S. Lê, J. Pagès

A new approach for analyzing a set of hierarchies

A. Geyer-Schulz, M. Ovelgonne

*Extensions of modularity clustering***20 Professional profiles**

Chair: L. Grilli Room: 0.05

M. Civardi, F. Crippa, V. Bagnardi

University graduate's job hunting: what helps to get the good one?

L. Fabbris, G. Boccuzzo

The detection of criticalities of graduates' jobs through importance-performance analysis

C. Martini

*Statistical methods to describe professional profiles through competences and activities***15:30-16:30 Third plenary session**

Chair: A. Giusti Room: 0.18

V. Esposito Vinzi, M. Zargoush

*Knowledge extraction by investigating model uncertainty through predictive path modeling and probabilistic networks***16:30-17:00 Coffee break****17:00-18:30 Specialized sessions****J Classification in systems biology II**

Chair: B. Lausen Discussant: A. Biggeri Room: 0.18

M. Göker

Phylogenomics as a standard technique for microbial taxonomy

H. Kestler

Boolean networks for modeling gene regulation

F. Stefanini

Graphical models for eliciting structural information

K Social networks and classification

Chair: M. R. D'Esposito Discussant: A. Geyer-Schulz Room: 0.04

U. Brandes, J. Lerner, M. J. Lubbers, C. McCarty, J. Luis Molina, U. Nagel
Classification of personal networks using latent roles

A. Ferligoj

Developments in blockmodeling

G. Giordano, M. P. Vitale

Clustering social actors by using auxiliary information on relational data

L Statistical matching: theory and applications to data mining and official statistics

Chair: N. Torelli Discussant: V. Esposito Vinzi Room: 0.07

M. D'Orazio, M. Di Zio, M. Scanu

Matching two different topics: ecological inference and data fusion

F. Meinfelder, S. Rässler

Displaying uncertainty in data fusion by imputation

P. Van der Putten

Data fusion for direct marketing

From 20:00 Gala dinner at “Biblioteca delle Oblate”

Friday, September 10, 2010

8:30-9:45 Contributed sessions

21 Correspondence analysis and related methods I

Chair: J. Blasius Room: 0.04

A. Iodice D'Enza, F. Palumbo

Adaptive factorial clustering for binary data

M. Greenacre

Measuring subcompositional incoherence in contingency tables and compositional data

A. Langovaya, H. Chouikha, S. Kuhnt

Correspondence analysis in the case of outliers

22 Estimation problems

Chair: A. Mattei Room: 0.05

G. Mellace, R. Rocci

Principal stratification in sample selection problems with non normal error terms

M. Montinaro, I. Sciascia

Some considerations on two-stage calibration estimators

N. Solaro

Automatic strategies of analysis for handling structurally missing occasions

23 Issues in classification and clustering

Chair: D. Vicari Room: 0.18

J. Dias

Model-based clustering of multistate data with latent change. An application with DHS data

J. Heikkonen, D. Perrotta, M. Riani, F. Torti

Issues on clustering and data gridding

C. Hennig

How to find the best clustering method for social stratification with mixed type variables

24 Multivariate analysis for relational data

Chair: G. Giordano Room: 0.07

V. Batagelj

Cluster analysis of multivariate relational data

D. De Stefano, G. Ragozini

Multiple correspondence analysis for relational data

J. Lerner

Analysis of multivariate event networks

25 Rankings and preferences

Chair: D. Piccolo Room: 0.06

B. Arpino, R. Varriale

A Monte-Carlo study to evaluate value-added models for institutions' rankings

P. Cerchiello, P. Giudici

Ordinal models to assess media reputation

L. Deldossi, R. Paroli

*Inference on the CUB model: a MCMC approach***9:45-10:45 Fourth plenary session**

Chair: C. Hennig Room: 0.18

R. Rocci

*Mixing mixtures of Gaussians***10:45-11:15 Coffee Break****11:15-12:30 Contributed Sessions****26 Correspondence analysis and related methods II**

Chair: M. Greenacre Room: 0.04

S. Balbi, M. Misuraca, E. Zavarrone

Comparing mental maps: Obama vs. McCain

J. Blasius

Assessing the response quality in ordered categorical data

S. Camiz, G. Coelho Gomes

*Joint correspondence analysis vs. multiple correspondence analysis: a solution to an undetected problem***27 Methodology and applications of latent class and mixture models**

Chair: C. Rampichini Room: 0.18

R. Arboretti Giancristofaro, S. Bonnini, E. Grossule, S. Ragazzi, L. Salmaso

Statistical cognitive survey on Passito wine in Veneto region (Italy) from the consumer's point of view

S. Bianconcini, S. Cagnone, P. Monari

Covariate effects in multivariate latent growth models for the analysis of undergraduate student performances

M. Matteucci, S. Mignani, B. P. Veldkamp

On using item features to estimate parameters in IRT models

28 Markov and graphical modelling

Chair: A. Gottard Room: 0.07

M. Costa, L. De Angelis

Model selection in latent Markov models: a simulation study

S. Pandolfi, F. Bartolucci, A. Farcomeni

Bayesian analysis of longitudinal categorical data via latent Markov models

E. Stanghellini, B. Vantaggi

*On the identification of discrete graphical models with hidden nodes***29 Variable structures**

Chair: F. Palumbo Room: 0.05

C. Davino, R. Romano

Sensitivity analysis of composite indicators through mixed model anova

K. Sahmer

*A model for the clustering of variables taking into account external data***30 Risk analysis**

Chair: D. Perrotta Room: 0.06

S. Facchinetto, P. Giudici, S. A. Osmetti

The distribution of the stochastic dominance index for risk measurement

S. Figini, P. Giudici, P. Uberti

Concentration measures for risk analysis

S. Figini, L. Grossi

*Robust estimation and prediction for credit risk models***31 Miscellanea**

Chair: A. Giommi Room: 0.15

F. Benassi, C. Bocci, A. Petrucci

Spatial clustering for local analysis

T. R. Lee, D. G. Jeon, E. Diday

*Symbolic tree for prognosis of localized osteosarcoma patient***12:30-13:00 Closing ceremony**

Room: 0.18

G. Ritter and A. Giusti (Co-Chairs of the S.P.C.), A. Giommi (Chair of L.O.C.)