ITACOSM 2015

4th ITAlian Conference on Survey Methodology

Rome, June 24-26, 205

Programme
June 24

09.30-11.30 - Registration

11.30-12.00 - Opening addresses (Room B1)

12.00-13.00 - Plenary Session (invited - Room B1)
Chair: M. Pratesi

New Methodological Challenges in the Production of Official Statistics
D. Pfeffermann

13.00-14.15 - Lunch

14.15-15.30 - Specialized (invited) sessions

Session title: Design-based approach to spatial sampling (Room B1)
Org. L. Barabesi, P.F. Perri
Chair: P.F. Perri

Talks:
- Mixed model regression estimation for spatial sampling
  G.E. Montanari
- Spatially correlated Poisson sampling
  A. Grafström
- Replicated environmental sampling for diversity indexes estimation
  C. Pisani, M. Marcheselli

Session title: Small area Estimation for Business Data (Room B2)
Org. M.R. Ferrante
Chair: M.R. Ferrante

Talks:
- Calibration of Small Area Estimates in Business Statistics
  N. Shlomo, R. Priam
- Small Area Estimation in Business Statistics: new perspectives at Istat
  O. Luzi, R. Monducci, F. Solari
- Bayesian small area estimation methods for business survey statistics
  E. Fabrizi, C. Trivisano

15.30-16.45 - Spontaneous sessions

Session title: Resampling methods in finite populations (Room B1)
Chair: D. Pfeffermann

Talks:
- On the impact of weights approximation in resampling based on pseudo-populations
  F. Andreis, F. Mecatti, P.L. Conti
- Bootstrap in finite populations: a unified approach
  D. Marella, P.L. Conti, F. Mecatti
- On some parametric bootstrap MSE estimator
  T. Żądło
Session title: *Survey sampling under non-standard conditions* (Room B2)
Chair: M.G. Ranalli

Talks:
- *Web-respondent-driven sampling*
  A. Bianchi, S. Biffignandi
- *Impact of linkage on small area estimators*
  L. Di Consiglio, T. Tuoto
- *Dealing with multiple list frames to improve population coverage: a simulation study*
  E. Furfaro, F. Mecatti

16.50-18.30 - **Welcome cocktail and Poster session** (Roof garden)

**Poster:**
- *Robust small area estimation under spatial non-stationarity*
  C. Baldermann, T. Schmid, N. Salvati
- *Bayesian estimation of a total population under linkage uncertainty*
  D. Briscolini, B. Liseo, A. Tancredi, G.S. Datta
- *Empirical Processes in Finite Population Sampling*
  A. Di Iorio
- *Bayesian M-quantile regression in Small Area Estimation*
  E. Fabrizi, G. Riccardi, N. Salvati, C. Trivisano
- *Ratio type estimation with application to rotating surveys*
  B. Kowalczyk
- *Combining HBS and LFS data for education level evaluation*
  O. Lysa
- *Reviewing the use of Coefficients of Variation (CVs) and associated terminology to describe data quality*
  S. Manclossi, R. Sanderson, C. Davies
- *The Use of Big Data in a Vector Error Correction Model for Preliminary Estimation of Economic Indicators: an Application to the Italian Rate of Unemployment*
  S. Falorsi, A. Naccarato, A. Pierini
- *A Comparison of Small Area Estimation Methods for Poverty Mapping under Box-Cox Type Transformations*
  N. Rojas-Perilla, T. Schmid, N. Tzavidis
June 25

09.00-10.35 - **Spontaneous session + Solicited session**

Session title: *Multivariate statistical methods in the presence of complex sampling designs* (Spontaneous - Room B1)
Chair: S. Zaccarin

Talks:
- *Non-parametric Bayesian Network for measurement error correction in 2008 SHIW*
  P. Vicard, D. Marella
- *A multilevel approach to investigate student performances in PISA 2012*
  V. Vitale, G. Bove, D. Marella
- *Estimation from Multi-Source Data Based on Latent Class Models*
  R. Varriale, U. Guarnera
- *The Fade-Away Effect under non-stationary conditions: theoretical ideas and empirical results from the German Panel Labour Market and Social Security (PASS)*
  U. Rendtel

Session title: *Spatial sampling: some advances and applications in social and business surveys* (Solicited - Room B2)
Org. R. Benedetti
Chair: R. Benedetti

Talks:
- *Quasi systematic sampling*
  M. Wilhelm, Y. Tillé
- *Spatially balanced sampling of continuous populations*
  A. Grafström
- *Assessing the effects of locational errors in spatial sampling*
  M.M. Dickson, G. Espa, D. Giuliani
- *Spatially balanced sampling for undercount estimation*
  R. Benedetti, D. Filipponi, F. Piersimoni

10.35-11.00 - **Coffee break**

11.00-12.00 - **Plenary session** (Invited - Room B1)
Chair:

*Sample Matching: Toward a probabilistic approach for Web surveys and Big Data?*
P. Lavallée

12.00-13.15 - **Specialized (invited) sessions**

Session title: *New perspectives on survey sampling* (Room B1)
Org. A. Petrucci
Chair: A. Petrucci

Talks:
- *Web surveys: quality and errors*
  S. Biffignandi
- *The use of big data in small area estimation*
  S. Marchetti, C. Giusti, M. Pratesi
- Modernizing the census by combining administrative sources and sample surveys
  F. Crescenzi

Session title: Poverty mapping (Room B2)
Org. I. Molina
Chair: I. Molina

Talks:
  C. Franco, W.R. Bell
- Empirical best prediction of general small area parameters based on a two-fold nested error regression model
  Y. Marhuenda, I. Molina, D. Morales, J.N.K. Rao
- Empirical Bayes Skew-normal Poverty Mapping
  M. Diallo

13.15-14.30 - Lunch

14.30-15.30 - Plenary session (Invited - Room B1)
Chair: G.E. Montanari

On Two Extensions to ELL Poverty Mapping Methodology
R. Chambers (with S. Das)

15.30-16.00 - Coffee break

16.00-17.15 - Specialized (invited) sessions

Session title: Small area methods for the estimation of household wealth and youth unemployment (Room B1)
Org. N. Salvati
Chair: N. Salvati

Talks:
- Small area estimation of the Gini concentration coefficient
  C. Trivisano, E. Fabrizi
- Time series small area estimation for unemployment using latent Markov models
  G. Bertarelli, M.G. Ranalli, F. Bartolucci, Michele D’Alò, F. Solari
- Microsimulation via Quantiles for Domain Prediction
  T. Schmid, N. Tzavidis, B. Weidenhammer, N. Salvati

Session title: Statistical methodologies for integration of surveys (Room B2)
Org. S. Falorsi, C. De Vitiis
Chair: S. Falorsi

Talks:
- Optimal sample allocation for indirect sampling design
  P.D. Falorsi, P. Lavallée, P. Righi
- Integrated estimation based on different sources of information
  M. D’Alò, F. Solari, A. Fasulo
- A theory of partial estimation
  L.-C. Zhang, R. Chambers
June 26

9.00-10.15 - **Spontaneous sessions**

Session title: *Contributions to sampling theory and methods* (Room B1)
Chair: P. Vicard

Talks:
- Ratio type estimators in median ranked set sampling
  N. Koyuncu
- A proposal for multipurpose stratification in agriculture sample surveys
  M. D'Orazio, E. Catanese
- Optimal sample allocation for the Stratified Simple Random Sampling and the Incomplete Stratified Sampling design
  P. Righi, C. De Vitiis, M.D. Terribili

Session title: *Statistical inference in sample surveys* (Room B2)
Chair: D. Marella

Talks:
- Assisting total estimation in spatial populations
  D. Cocchi, F. Bruno, A. Vagheggini
- Aligning estimates for common parameters across multiple surveys using Empirical Likelihood methods
  E. Kabzinska, Y.G. Berger
- Challenges in weighting data from a modular longitudinal survey
  S. Merad

10.15-11.00 - **Coffee break**

11.00-12.00 - **Plenary session** (Invited – Room B1)
Chair: P.L. Conti

*Multiple Frame Surveys: a unified principled framework to estimation*
F. Mecatti

12.00-13.15 - **Specialized (invited) session + solicited session**

Session title: *Data quality in polls and surveys* (Specialized - Room B1)
Org. O. Giambalvo, A. Petrucci, S. Zaccarin
Chair: O. Giambalvo

Talks:
- Indicators for assessing the representativeness of response in a web survey on academic careers at the University of Florence
  E. Rocco, A. Petrucci
- When election polls go wrong: coping with polling problems
  K. Francovich
- Questions and answers.... How to translate them in data and statistics
  M. Pessato
Session title: **Benchmarking Small Area Estimates** (Solicited - Room B2)
Org. B. Liseo
Chair: B. Liseo

Talks:
- *Smoothing, Clustering, and Benchmarking for Small Area Estimation*
  R.C. Steorts
- *External and Internal Benchmarking of Small Area Estimates*
  G.S. Datta
- *Benchmark strategies for small area estimation in repeated surveys*
  F. Solari, M. D’Alò, L. Di Biagio, S. Falorsi, A. Fasulo