

## Program Overview

		Hall 1	Hall 2
Sunday	10.30 – 11.00	Registration	
	11.00 – 11.10	Opening of the Conference	
	11.10 – 12.00	Invited Lecture	
	12.00 – 12.20	Break	
	12.20 – 13.40	Developments in Statistics	
	13.40 – 15.00	Lunch	
	15.00 – 16.20	Education I	Measurement
	16.20 – 16.40	Break	
	16.40 – 17.40	Education II	Sampling Techniques and Data Collection
	19.00	Reception	
Monday	9.10 – 10.00	Invited Lecture	
	10.00 – 10.20	Break	
	10.20 – 11.40	Biostatistics and Bioinformatics I	
	11.40 – 12.00	Break	
	12.00 – 13.00	Biostatistics and Bioinformatics II	Statistical Applications - Economics I
	13.00 – 14.30	Lunch	
	14.30	Excursion	
Tuesday	9.10 – 10.00	Invited Lecture	
	10.00 – 10.20	Break	
	10.20 – 11.40	Social Science Methodology	
	11.40 – 12.00	Break	
	12.00 – 13.20	Modeling and Simulation I	Statistical Applications - Economics II
	13.20 – 15.00	Lunch	
	15.00 – 16.20	Econometrics	Mathematical Statistics
Wednesday	9.10 – 10.30	Modeling and Simulation II	Design of Experiments and Statistical Applications
	10.30 – 10.50	Break	
	10.50 – 12.10	Modeling and Simulation III	Statistical Applications - Biostatistics
	12.10 – 12.30	Closing of the conference	
	12.30 – 14.00	Lunch	
	14.00 – 18.00	Workshop	

10.30–11.00 **Registration**

11.00–11.10 **Opening of the Conference**

11.10–12.00 **Invited Lecture** (Hall 1)

*Chair: Katarina Košmelj*

1. **Symbolic Data Analysis: Are Distributions the Numbers of the Future? An Illustrative Answer**  
*Lynne Billard*

12.00–12.20 **Break**

12.20–13.40 **Developments in Statistics** (Hall 1)

*Chair: Lynne Billard*

1. **Mallows' Distance in Symbolic Data Analysis**  
*Katarina Košmelj and Lynne Billard*
2. **Recent Developments in the Statistical Analysis of Interval Data**  
*Ulrich Poetter, Georg Schollmeyer, Thomas Augustin, Marco Cattaneo and Andrea Wiencierz*
3. **Outlier Detection in Overdispersed Proportions - A Comparison of Four Main Approaches**  
*Gaj Vidmar and Rok Blagus*
4. **Data Analysis using R in Extreme Value Theory**  
*Helena A. Penalva, Manuela C. Neves and Sandra D. Nunes*

13.40–15.00 **Lunch**

15.00–16.20 **Education I** (Hall 1)

*Chair: Matevž Bren*

1. **The Determinants of Academic Success and Failure in a Competing Risks Approach**  
*Renata Clerici, Anna Giraldo and Silvia Meggiolaro*
2. **The Statistical Textual Analysis Applied to the Italian University Offering Database**  
*Claudia Caruso*
3. **Possibilities of Application of Statistical Analysis in the System of Higher Education Institution Quality**  
*Zorana Lužanin and Valentina Sokolovska*
4. **Statistical Approaches to Inner Design of Primary School Classroom**  
*H.Derya Arslan, Kerim Çınar and Pınar Dinç*

15.00–16.20 **Measurement** (Hall 2)

*Chair: Anuška Ferligoj*

1. **Time Series of Macroeconomic Indicators for the Czech Republic 1970 - 1990**  
*Jaroslav Sixta and Jakub Fischer*

**2. The Development of Labour Productivity in the Czech Republic in the Period between 1970 and 1989**

*Kristyna Vltavska and Jaroslav Sixta*

**3. Methodological Manual on Purchasing Power Parities: A Useful Tool for Regional Price Levels?**

*Petr Musil and Jana Kramulova*

**4. A Demographic Island. Peculiar Features of People Distribution in Sardinia**

*Maurizio Brizzi and Alessia Orrù*

16.20–16.40 **Break**

16.40–17.40 **Education II** (Hall 1)

*Chair: Andrej Blejec*

**1. Team Teaching with Students: Experimental Study Part 2**

*Jerneja Sifrer, Zala Žvab and Matevž Bren*

**2. Internal and External Grading at Slovene Matura Exam: Differences in Distributions Shown by Ordinal Dominance Graphs**

*Darko Zupanc, Gašper Cankar and Matevž Bren*

**3. R-Excel Tools for Homework Assignment and Exam Preparation**

*Lara Lusa*

16.40–18.20 **Sampling Techniques and Data Collection** (Hall 2)

*Chair: Maurizio Brizzi*

**1. Challenges in Measurement of Sustainable Development in the Czech Republic**

*Jana Kramulova, Lenka Hudrlikova and Jan Zeman*

**2. Sampling Coordination of Business Surveys**

*Maruša Stanek and Boro Nikić*

**3. SPAMIA: Spam Filtering by Quantitative Profiles**

*Marian Grendár, Jana Škutová and Vladimír Špitalský*

**4. An Algorithm for Computing a Combined Interestingness Measure in Association Analysis**

*Derya Ersel and Süleyman Günay*

**5. Ratio-type Estimator of Population Total with Minimum MSE: A Computational Approach**

*Mohammadreza Faghihi and Zahra Noori*

19.00 **Reception**

9.10–10.00 **Invited Lecture** (Hall 1)

*Chair: Janez Stare*

1. **Multi-state Models: A Variety of Uses**  
*Vern Farewell*

10.00–10.20 **Break**

10.20–11.40 **Biostatistics and Bioinformatics I** (Hall 1)

*Chair: Vern Farewell*

1. **Development of a Flexible Excess Hazard Model with Shared Frailty, Non-Linear and Time-Dependent Effects of Covariates**  
*Hadrien Charvat, Laurent Remontet, Nadine Bossard, Laurent Roche, Jacques Estève and Aurélien Belot*
2. **On Comparison of Measures of Explained Variation in Survival Analysis**  
*Nataša Kežžar, Delphine Maucort-Boulch and Janez Stare*
3. **Properties of a Net Survival Estimator**  
*Maja Pohar Perme*
4. **Dynamic Survival Model for Clustered Multiple Failure Time Data**  
*Amirhossein Jalali, Firoozeh Haghighi, Zahra Rezaei Ghahroodi and Shirin Moghaddam*

11.40–12.00 **Break**

12.00–13.00 **Biostatistics and Bioinformatics II** (Hall 1)

*Chair: Maja Pohar Perme*

1. **Spatio-Temporal Modelling of Daily Rainfall**  
*Ana F. Militino, Maria D. Ugarte and Manuel Garcia-Magariños*
2. **Benefits and Caveats of Massive Microarray Data Production**  
*Ana Rotter, Urška Tajnšek, Kristina Gruden, Helena Motaln and Tamara Lah Turnšek*
3. **Improved Shrunken Centroid Classifiers for High-Dimensional Data**  
*Rok Blagus and Lara Lusa*

12.00–13.00 **Statistical Applications - Economics I** (Hall 2) *Chair: Delphine Maucort-Boulch*

1. **Testing Export-Led Growth Hypothesis: The Case of Turkey, 1961-2010**  
*Mustafa Murat Arat*
2. **Water Utilization, Water Quality in the Endogenous Economic Growth: Reflections On Fixed Effects**  
*Souha El Khanji and John Hudson*
3. **SMEs and Fast-Growing Companies in Survey Estimates**  
*Aleša Lotrič Dolinar, Rudi Seljak and Mojca Bavdaž*

13.00–14.30 **Lunch**

14.30 **Excursion**

**TUESDAY, September 25, 2012**

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9.10–10.00 **Invited Lecture** (Hall 1) *Chair: Andrej Blejec*

1. **Data Analysis: Best Practices and Future Directions**  
*Hadley Wickham*

10.00–10.20 **Break**

10.20–11.40 **Social Science Methodology** (Hall 1) *Chair: Hadley Wickham*

1. **Advances in Methods for Causal Inference of Observational Studies**  
*Ana Kolar and Vasja Vehovar*
2. **Post-Stratification Weighting Issues in Cross-National Survey Research**  
*Ana Slavec and Vasja Vehovar*
3. **Internet Forums: What Information is Out There?**  
*Vanja I. Erčulj*
4. **Clustering Macroeconomic Variables**  
*Chiara Perricone*

11.40–12.00 **Break**

12.00–13.20 **Modeling and Simulation I** (Hall 1) *Chair: Jacques Esteve*

1. **Generating Random Numbers from Empirical Distributions**  
*Katja Rostohar, Anja Žnidaršič, Jelka Šuštar Vozlič and Andrej Blejec*
2. **A Proposition of a Hybrid Stochastic Lee–Carter Mortality Models**  
*Leslaw Socha and Agnieszka Rossa*
3. **Bootstrap Confidence Intervals of the Difference between Two Process Capability Indices for Half Logistic Distribution**  
*Somchit Wattanachayakul and Wararit Panichkitkosolkul*
4. **Defective Rate Control Charts for Zero-Inflated Processes**  
*Chanaphun Chanant and Piyachat Leelasilapasart*

12.00–13.20 **Statistical Applications - Economics II** (Hall 2) *Chair: Giovanni Millo*

1. **The Log-Periodic Power Law model for financial bubbles with ARMA/GARCH errors**  
*Špela Jezernik Širca*
2. **On Longevity Risk Models in the Romanian Annuity Market and Pension Funds**  
*Iulian Mircea and Mihaela Covrig*
3. **Comparison of Artificial Neural Networks, Autoregressive Model and Multiple Linear Regression for Monthly Streamflow Estimation**  
*Meral Büyükyıldız and Tezel Gülay*

4. **Comparing the Markov Switching AR, Nonlinear Additive AR, Self-Exciting Threshold AR and Logistic Smooth Transition AR models for Analysis Time Series Data With Dramatic Jumps**  
*Masoud Yarmohammadi*

13.20–15.00 **Lunch**

15.00–16.20 **Econometrics** (Hall 1)

*Chair: Aleša Lotrič Dolinar*

1. **Insurance Markets in the Long Run**  
*Giovanni Millo and Gaetano Carmeci*
2. **On the Proportional Retention Reinsurance Problem**  
*Mihaela Covrig, Daniela Todose, Emilia Titan and Simona Ghita*
3. **Hybrid Fuzzy Mortality Models of LC-type: A Simulation Study**  
*Andrzej Szymański and Agnieszka Rossa*
4. **A Modified Weighted Symmetric Estimator for a Gaussian First-Order Autoregressive Model with Additive Outliers**  
*Wararit Panichkitkosolkul and Patarawan Sangnawakij*

15.00–16.20 **Mathematical Statistics** (Hall 2)

*Chair: Nataša Kejžar*

1. **Confidence Intervals for a Ratio of Binomial Proportions Based on Direct and Inverse Sampling**  
*Thuntida Ngamkham, Kamon Budsaba and Araya Chaemchan*
2. **Generalized Confidence Interval for the Difference between Normal Population Variances**  
*Wichitra Phonyiem and Sa-att Niwitpong*
3. **The Comparison of Tests for Equality of Coefficients of Variation for Data with Outliers**  
*Piyachat Leelasilapasart and Chanaphun Chananet*
4. **Random Effect One-Way ANOVA Model when Sampling from a Finite Population of Treatment Groups**  
*Kamon Budsaba, Teerawat Simmachan and John J. Borkowski*

9.10–10.30    **Modeling and Simulation II** (Hall 1)

*Chair: Rok Blagus*

1. **Smooth Bootstrap Inference for Parametric Quantile Regression**  
*Tatjana Kecojevic and Peter Foster*
2. **Bayesian Model Selection Criteria for Generalized Linear Models with Data Missing Not at Random**  
*Zeynep Kalaylioglu*
3. **Estimation of Daily Evaporation Using Different Modeling Methods**  
*Gülay Tezel and Meral Büyükyıldız*
4. **An Application of Optimization Algorithms for Generating Correlated Multivariate Random Samples**  
*Anamai Na-udom and Jaratsri Rungrattanaubol*

9.10–10.30    **Design of Experiments and Statistical Applications** (Hall 2) *Chair: Aurélien Belot*

1. **Enhancement of Search Algorithms for Constructing Optimal Latin Hypercube Designs**  
*Jaratsri Rungrattanaubol and Anamai Na-udom*
2. **An Analysis of Turkey Demographic and Health Survey 2008 Data with Co-Plot Method**  
*Yasemin Kayhan Atilgan and Süleyman Günay*
3. **Estimation of Curvature and Displacement Ductility in Reinforced Concrete Buildings**  
*M. Hakan Arslan*
4. **Individual Control Treatments in Designed Genetical and Agricultural Experiments**  
*Stanislaw F. Mejza and Iwona Mejza*

10.30–10.50    **Break**

10.50–12.10    **Modeling and Simulation III** (Hall 1)

*Chair: Gaj Vidmar*

1. **Statistical Methods for Processing and Analysis of Digital Images: Determining Compressive Strength of Concrete**  
*Gamze Cankaya, M. Hakan Arslan and Murat Ceylan*
2. **Bayesian Estimation of Odds Ratios: An Application**  
*Deniz Taşçı and Süleyman Günay*
3. **Fast Robust Kernel Density Estimation**  
*Kouros Dadkhah*
4. **Bayesian Test of Homogeneity of Transition Model for Analyzing Longitudinal Ordinal Data**  
*Sajad Noorian and Mojtaba Ganjali*

10.50–11.50 **Statistical Applications - Biostatistics** (Hall 2)

*Chair: Ana Rotter*

1. **Plant Life Forms and Ecological Indices of Lake Provala**  
*Katarina J. Čobanović, Ljiljana M. Nikolić and Slobodan C. Ničin*
2. **Statistical Aspects of Evaluation of Environmental Policy in Slovenia**  
*Žiga Kotnik and Maja Klun*
3. **Data Transformations and Normality: Example from Wheat Drought Stress Trial**  
*Miroslav Z. Zorić, Emilija B. Nikolić-Djorić and Dragan S. Djorić*

12.10–12.30 **Closing of the conference** (Hall 1)

12.30–14.00 **Lunch**

14.00–18.00 **Workshop** (Hall 1)

1. **Creating Effective Visualizations**  
*Hadley Wickham*