

15.00–18.00 **Workshop**
Hall 1

1. Permutation-based multiple testing with R

Livio Finos

18.00–19.00 **Registration**

19.00–21.00 **Reception**

8.00–9.00 **Registration**

9.00–9.10 **Opening of the Conference**

Hall 1

Chair: Andrej Blejec

9.10–10.00 **Invited Lecture**

Hall 1

Chair: Andrej Blejec

1. How can data science improve statistics education?

Deborah Nolan

10.00–10.30 **Break**

10.30–11.30 **Education**

Hall 1

Chair: Deborah Nolan

1. Five myths about variable selection

Georg Heinze and Daniela Dunkler

2. Teaching convergence of random variables with down-to-earth examples

Nina Ružič Gorenjec and Maja Pohar Perme

3. Presentation of statistical concepts with dynamic graphics

Andrej Blejec

11.30–11.50 **Break**

11.50–12.50 **Mathematical Statistics**

Hall 1

Chair: Mihael Perman

1. Symbolic input-output analysis: A harmonic analysis approach to joint statistical distributions

Andrej Srakar

2. On the pricing barrier control in a regime-switching regulated market

Chihoon Lee

3. Two-sample rank test based on Lee distance

Nikolay I. Nikolov

11.50–13.10 **Other Areas of Statistics I**

Hall 2

Chair: *Janez Stare*

1. **Loss triangle: An application of copula regression**
Rümeysa Karataş and Uğur Karabey
2. **A comparison of hierarchical clustering of categorical data with and without a binary data transformation**
Jana Cibulková, Zdeněk Šulc, Hana Řezanková and Sergej Sirota
3. **The challenges of the official statistics by and after 2020**
Jaroslav Sixta
4. **A cograduation-based trend analysis of demographic, economic and social variables among European and African countries**
Maurizio Brizzi and Francesco Scalone

13.10–14.30 **Lunch**

14.30–15.50 **Econometrics**

Hall 1

Chair: *Maurizio Brizzi*

1. **Panel analysis of impact of economic development on female labor force participation rate**
Stojanka Dakić and Mirko Savić
2. **Bayesian inference of local projections with roughness penalty priors**
Masahiro Tanaka
3. **Household debt and its ripple effects on wellbeing in rural Thailand**
Thanawit Bunsit
4. **Technical profitability in a large motor insurance market: national vs. local drivers**
Giovanni Millo

14.30–15.50 **Data Collection and Data Mining**

Hall 2

Chair: *Livio Finos*

1. **Maximize profitability of the retention campaign in the banking sector using data mining methods**
Iveta Stankovicova
2. **Analysing migration trajectories using dynamic topological data analysis**
Ulrich Pötter and Ingrid Schockaert
3. **Big data statistics and modeling for biopotential optimization**
Želimir Kurtanjek

4. Literature-based discovery for interpretation of next-generation sequencing data

Dimitar Hristovski, Gaber Bergant, Andrej Kastrin and Borut Peterlin

15.50–16.10 **Break**

16.10–17.10 Modeling and Simulation I

Hall 1

Chair: Matevž Bren

1. Hidden Markov model for earthquake forecasting in Aegean Sea

Ozgur Danisman and Umay Uzunoglu Kocer

2. Khmaladze transform and randomness tests in model diagnostic

Kilani Ghoudi

3. A multilevel approach in the study in milk production in Portuguese dairy farms

Pedro Oliveira, Elisabete G. Martins, Denisa Mendonça, Bruno M. Oliveira and João Niza-Ribeiro

16.10–17.30 Statistical Applications I

Hall 2

Chair: Giovanni Millo

1. Revisiting CAPM model with quantile regression: Creating investment strategies on Zagreb Stock Exchange

Tihana Škrinjarić and Marina Slišković

2. Optimal switching hedging strategy in equity-linked products with guarantees

Ana Zalokar and Mihael Perman

3. Model averaging in discrete choice analysis of hotel selection

Antti M. Liski and Erkki P. Liski

4. An analysis of factors affecting Thai exports in ASEAN

Anas Yusoh and Thanawit Bunsit

9.10–10.00 **Invited Lecture**
Hall 1

Chair: Anuška Ferligoj

1. Reconstructing networks with heterogeneous and unknown errors

Tiago de Paula Peixoto

10.00–10.30 **Break**

10.30–12.10 **Network Analysis**
Hall 1

Chair: Tiago de Paula Peixoto

1. Spatial and network decomposition of electoral volatility

Aleksandar Tomašević, Valentina Sokolovska and Bojana Dinić

2. The emergence of the core-cohesive blockmodel

Martjan Cugmas, Aleš Žiberna and Anuška Ferligoj

3. Adapting k -means like approach for blockmodeling one-mode and linked networks

Aleš Žiberna

4. The Zipf-PE Distribution. An alternative distribution for modeling the degree sequence of real networks

Ariel Duarte-López, Živa Ramšak and Marta Pérez-Casany

5. Social network analysis: The evolution of the field

Daria Maltseva and Vladimir Batagelj

10.30–11.50 **Other Areas of Statistics II**
Hall 2

Chair: Maja Pohar Perme

1. Statistical comparison of machine learning algorithms with respect to multiple performance measures

Lara Dular and Ljupčo Todorovski

2. Comparison of the efficiency of obtaining double haploid lines of wheat with and without rye translocation

Zygmunt Kaczmarek, Tadeusz Adamski, Maria Surma, Stanislaw Mejza, Anetta Kuczynska, Piotr Ogorowicz and Krzysztof Mikolajczak

3. Statistical approach to evaluate of phenotypic variation of barley varieties regarding roots and shoots characteristics

Anetta Kuczynska, Maria Surma, Krzysztof Mikolajczak, Piotr Ogorowicz, Zygmunt Kaczmarek, Iwona Mejza and Michal Kempa

4. Adjustment to a chronic disease: Are optimism and social support mediators between psychosocial factors and quality of life?

Estela Vilhena, José Luís Pais Ribeiro and Denisa Mendonça

12.10–12.30 **Break**

12.30–13.50 **Modeling and Simulation II**

Hall 1

Chair: Aleš Žiberna

1. **Adaptive estimation for multifactor polynomial regression**
Aysen Dener Akkaya and Ozlem Turker Bayrak
2. **Bootstrap and heuristic methodologies in the statistical analysis of extreme values**
Helena Penalva, M. Manuela Neves and Sandra Nunes
3. **Fuzzy mortality models based on orthonormal expansion of membership functions**
Agnieszka Rossa and Andrzej Szymanski
4. **Statistical description of particle movement in a Chladni experiment**
Igor Grabec and Nikolaj Sok

12.30–13.50 **Statistical Applications II**

Hall 2

Chair: Nataša Kejžar

1. **Establishing activity levels and prescribing lower-limb prostheses using walking tests: Statistical approaches and clinical considerations**
Gaj Vidmar, Neža Majdič and Helena Burger
2. **Adjusting a subject-specific timing of event in longitudinal studies**
Myung Hee Lee, Hyunkeun Ryan Cho and Seonjin Kim
3. **Joint modelling for longitudinal and time-to-event in health sciences**
Inês Sousa
4. **Providing patients visiting Emergency Departments with useful information using public real time data: A case study based on Italian data**
Lara Lusa and David Bukovšek

13.50–14.50 **Lunch**

15.00 **Excursion**

3. **Optimal integration of heterogeneous cohorts for global prostate cancer risk assessment**

Johanna E. Straubinger and Donna P. Ankerst

11.50–12.50 **Design of Experiments and Measurements**

Hall 2

Chair: Stanislaw Mejza

1. **So, who is pregnant? Automatic identification of pregnancy from infertility support forum posts**

Vanja Erčulj

2. **Smartphone application? Moving towards new methods in data collection**

Darka Jezeršek Žerjal

3. **Transition to Web data collection in household surveys at SURS—what have we learned so far**

Marta Arnež, Eva Belak, Nataša Bučar, Mihaela Nemeč, Katja Rutar and Luka Zupanc

13.00–13.10 **Closing of the conference**

Hall 1

Chair: Andrej Blejec