

15.00–18.00 **Workshop**
Hall 1

1. **Statistics meets machine learning: The example of statistical boosting**
Riccardo De Bin

18.00–19.00 **Registration**

19.00–21.00 **Welcome Mixer**

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: Janez Stare

1. Cancer risk model requirements for counseling, prevention and early detection

Mitchell H. Gail

10.00–10.20 **Break**

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

Chair: Mitchell H. Gail

1. Dynamical modeling for prediction of aphid abundance

Marek Brabec

2. Unbiased variable importance for random forests

Markus Loecher

3. Goodness-of-fit tests for linear mixed effects models

Jakob Peterlin and Rok Blagus

4. Direct modelling of probabilities in the relative survival setting

Maja Pohar Perme, Dimitra-Kleio Kipourou, Aurelien Belot and Bernard Rachtel

11.40–12.00 **Break**

12.00–13.20 **Measurement**
Hall 1

Chair: Katarina Košmelj

1. Psychometric analysis of the Slovenian translation of de Morton Mobility Index

Gaj Vidmar, Aleksander Zupanc, Urška Puh and Primož Novak

2. Methodological challenges of measuring innovation activities of micro companies

Ana Slavec, Michael D. Burnard and Barbara Rovere

3. Analysis and evaluation of quality of mixed methods designs in intervention research

Gizela Kopač and Valentina Hlebec

4. Human biomonitoring project challenges and opportunities

Ivan Eržen and Katja Rostohar

12.00–13.20 **Mathematical Statistics**

Hall 2

Chair: Mihael Perman

1. On random environment integer-valued autoregressive process

Aleksandar S. Nastić, Petra N. Laketa and Miroslav M. Ristić

2. Ruin probability for merged risk processes with correlated arrivals

Mohammad Jamsher Ali and Kalev Parna

3. Statistical analysis of discrete time competing risks model with covariates

Petr Volf

4. Imprecise copulas arising from shock models

Damjan Škulj and Matjaž Omladič

13.20–15.00 **Lunch**

15.00–16.20 **Econometrics**

Hall 1

Chair: Matevž Bren

1. Wavelet regression estimator for compositional data

Andrej Srakar and Tim R. L. Fry

2. The use of logistic regression in credit risk management

Dragana Tekić, Beba Mutavdžić and Tihomir Novaković

3. Some extensions of optimal stopping with financial applications

Mihael Perman and Ana Zalokar

15.00–16.20 **Statistical Applications I**

Hall 2

Chair: Nataša Kežžar

1. Application of Bayesian networks for assessing the efficiency of research units in data envelopment analysis

Derya Ersel and Yasemin Kayhan Atılgan

2. An application of intuitionistic fuzzy hypothesis testing with intuitionistic fuzzy data

Gültekin Atalik and Sevil Senturk

3. Trend of employment rate in the Slovak Republic and others EU countries

Iveta Stankovičová

4. Measuring and analysing time series data in horizontal time dimension: Insights beyond the conventional static analysis

Pavle Sicherl

9.10–10.00 **Invited Lecture**
Hall 1

Chair: Anuška Ferligoj

1. **The dynamics of social networks: How social ties emerge and impact our lives**
Christoph Stadtfeld

10.00–10.20 **Break**

10.20–11.40 **Network Analysis**
Hall 1

Chair: Christoph Stadtfeld

1. **The local network mechanisms and hierarchical global network structure in the context of knowledge-flow**
Marjan Cugmas, Aleš Žiberna, Škerlavaj Miha and Anuška Ferligoj
2. **Comparing different methods for one-mode (and linked) homogeneity block-modeling according to structural equivalence on binary networks**
Aleš Žiberna
3. **Representation learning for heterogeneous biomedical networks**
Dimitar Hristovski and Andrej Kastrin
4. **A bibliometric application of clustering with relational constraint**
Vladimir Batagelj

10.20–11.40 **Other Areas of Statistics I**
Hall 2

Chair: Herwig Friedl

1. **How can a sense of smell lead randomly moving beings to food?**
Igor Grabec and Ada Elizabeta Sok
2. **Statistical characterization of lizard skin pattern**
Igor Grabec and Ada Elizabeta Sok
3. **Identifying higher order drug-drug interaction effects using mixture model**
Arindom Chakraborty
4. **Does the use of stimulants in Slovenia increase**
Katja Rostohar and Mateja Jandl

11.40–12.00 **Break**

12.00–13.20 **Modeling and Simulation**

Hall 1

Chair: Maja Pohar Perme

1. **Detection of influential points as a byproduct of resampling-based variable selection procedures**

Riccardo De Bin, Anne-Laure Boulesteix and Willi Sauerbrei

2. **Mixing generalized nonlinear regression models**

Herwig Friedl and Sanela Omerovic

3. **Statistical inference using data plots with an example from animal communication**

Andrej Blejcek, Rok Šturm and Meta Virant Doberlet

4. **Updated model prediction: Early perfusion CT in patients with traumatic brain injury**

Nataša Kejžar, Jernej Avsenik and Fajko Bajrović

12.00–13.20 **Statistical Applications II**

Hall 2

Chair: Vladimir Batagelj

1. **How accurate are IR body temperature measurements?**

Melita Hajdinjak, Igor Pušnik and Marina Štukelj

2. **Career choice: Rational or emotional decision**

Vanja Erčulj

3. **Probability sampling in public administration**

Mirko Pečarič, Vasja Vehovar and Žiga Kotnik

4. **Meteorological observations and the use of neural networks for the prediction of the concentration of air pollutants in the region of Athens**

Georgios K. Bekas

13.20–14.30 **Lunch**

14.30 **Excursion**

9.10–10.00 **Invited Lecture**
Hall 1

Chair: Lara Lusa

1. Sufficient dimension reduction for high dimensional longitudinally measured biomarkers

Ruth Pfeiffer

10.00–10.20 **Break**

10.20–11.40 **Biostatistics and Bioinformatics II**
Hall 1

Chair: Ruth Pfeiffer

1. Estimating an upper limit to the probability of random cancer

Janez Stare, Robin Henderson and Nina Ružić Gorenjec

2. Analysing spatial aggregation ecological fallacy with a real-life population-based dataset in the case of socio-economic deprivation and cancer incidence

Katarina Lokar, Tina Žagar and Vesna Zadnik

3. Integrating relative survival in multi-state models

Damjan Manevski, Liesbeth C. de Wreede, Hein Putter and Maja Pohar Perme

4. Optimization of deviance components to improve prediction and classification with rare events

Lara Lusa, Rok Blagus and Georg Heinze

10.20–11.40 **Other Areas of Statistics II**
Hall 2

Chair: Aleš Žiberna

1. Reproducibility of GWAS analysis of cellular metabolic response to growth limitations

Zelimir Kurtanjek

2. Causality conditions

Rolf Steyer

3. Application of distance and similarity measures for binary data in cluster analysis

Jana Cibulková, Zdeněk Šulc, Hana Řezanková and Sergej Sirota

4. A deep learning analytics to detect prognosis of Hepato Cellular Carcinoma

Taerim Lee

11.40–12.00 **Break**

12.00–12.40 **Education**
Hall 1

Chair: Andrej Blejec

1. Mathematics teachers' conceptualizations of average and instructional practices

Vuslat Seker and Erdinc Cakiroglu

2. Comparing rejection rates and power of t -test, Mann-Whitney test and two-stage procedure in case of non-normal distributions

Bor Vratinar and Nace Vreček

12.40–12.50 **Closing of the conference**
Hall 1

Chair: Andrej Blejec