Statistical Society of Slovenia

International Conference

22nd Applied Statistics 2026

September 21–23, 2026

Koper, Slovenia

Conference Program

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International Conference

APPLIED STATISTICS 2026

Conference Program

This PDF was created on September 22, 2026 8:17am

Please send any questions/corrections regarding the programme to andrej.kastrin@mf.uni-lj.si.

September 21–23, 2026

Koper/Capodistria, Slovenia

8.30–15.00 **Registration**

9.00–9.30 **Opening**
Room 1

9.30–10.20 **Keynote**
Room 1 *Chair: Vladimir Batagelj*

1. **Parametric sparse models for distributional data**
   Paula Brito

10.20–10.50 **Break**

10.50–12.20 **Data Science 1**
Room 1 *Chair: Paula Brito*

1. **Validation of Adolescents' EMA Profiles through Classification of Symbolic Distributional Data**
   Jasminka Dobša, Simona Korenjak-Černe, Miranda Novak, Maja Buhin Pandur and Lucija Šutić Barbarić
2. **Oscillation detection: Ten data-driven approaches**
   Ian Marsh
3. **Practical limitations of using the linear regression correction of Bland Altman analysis**
   Maša Kušar
4. **FDI and Portfolio Investments in Ukraine: A Statistical Comparison of Dynamic Characteristics (1994–2026)**
   Vadym Maslii

10.50–12.20 **Official Statistics**
Room 2 *Chair: Irena Ograjenšek*

1. **Nowcasting the Total Market Production Index for Slovenia**
   Sašo Polanec, Tjaša Bartolj, Aleša Lotrič Dolinar and Mojca Bavdaž
2. **Noise Addition as a Prospective Solution to Over-suppression**
   Žan Korošec
3. **Event History Analysis of Response Behaviour: A Comparative Study Across Respondent Groups in Three Independent Socio-Demographic Surveys in Italy**
   Marija Mamolo, Loredana Di Consiglio and Raffaella Succi
4. **Estimation of Monthly Unemployment Rate in Slovenia**
   Zarja Fabjan
5. **A Modelling Approach to Estimating Average Daily Tourist Spending in Slovenia**
   Primož Bogner

12.20–12.30 **Break**

12.30–13.30 **Mathematical Statistics**
Room 1 *Chair: Mihael Perman*

1. **How contagious is happiness, Bayesian spatial modeling of life satisfaction with individual covariates**
   Marek Brabec, Dana Hamplova, Marek Maly and Patricia Martinkova
2. **Stability and Precision of Entropy-Based Aggregation Methods in Ill-Conditioned Regression: A Simulation Study**
   Ana Helena Tavares, Pedro Macedo and Maria Costa
3. **A common-shape Bayesian nonparametric model for multivariate mean and covariance change points**
   Gordon Ross
4. **The cdf of BCF: Posterior contraction rate and Bernstein-von Mises theorem for Bayesian causal forests**
   Andrej Srakar
5. **Change-Point Detection in Innovation Distributions of Circular Regression Models**
   Bojana Milošević and Dunja Prokić

12.30–13.30 **Social Sciences and Humanities 1**
Room 2 *Chair: Gregor Sočan*

1. **Social Support Networks of Older Adults Before, During, and After the COVID-19 Pandemic**
   Marjan Cugmas and Anuška Ferligoj
2. **The Role of Firms in Wage Inequality: Evidence from Linked Employer-Employee Data for Croatia and Slovenia**
   Tjaša Bartolj, Barbara Kalar, Nataša Kump, Ria Ivandić, Velibor Mačkić and Filip Novokmet
3. **Using a Delphi study to assess consensus and content validity in a Cybersecurity Competence Framework for Older Adults**
   Anže Mihelič, Kaja Prislan Mihelič and Ajda Šulc
4. **Psychosocial Risks in the Workplace: A Thematic Analysis of Instagram Posts**
   Vanja Erčulj and Monika Martinc
5. **Assessing the Quality of Mixed Methods Research in Intervention Studies: Model Development, Empirical Application, and Integration Patterns**
   Gizela Kopač and Damjan Černe

13.30–14.30 **Lunch**

14.30–16.30 **Complex Networks**
Room 1 *Chair: Marjan Cugmas*

1. **Biblium in Orange: Visual-Programming Bibliometric Analysis**
   Lan Umek

2. **An Author Impact Measure**
   Vladimir Batagelj
3. **Controlling or normalizing? Blockmodeling valued networks with unequal relational capacities**
   Aleš Žiberna and Fabio Ashtar Telarico
4. **The Recipe Similarity Network: A Statistical Framework for Extracting Structural Information from Culinary Databases**
   Michele Bellingeri, Axel Bidon-Chanal Badia, Marta Vila Rigat, Roberto Alfieri, Massimiliano Turchetto and Davide Cassi
5. **Stochastic Modelling of Scientific Collaboration and Knowledge Production**
   Luka Kronegger

14.30–16.00 **Data Science 2**
Room 2 *Chair: Ana Zalokar*

1. **Multi-Criteria and Sequential Strategies for Data-Driven Design of Experiments**
   Matteo Borrotti
2. **Registry Data to Analysis-Ready Data Through Structured Initial Data Analysis**
   Maja Jurtela, Lara Lusa, Tina Žagar, Nika Bric, Mojca Birk and Vesna Zadnik
3. **Machine Learning and Regression-Based Prediction of Low Birth Weight Using Maternal Nutritional Factors, Biomarkers, and Obstetric Factors: A Multicenter Hospital-Based Study in Addis Ababa, Ethiopia**
   Jiregna Olani Kedida, Thierry Bossy, Corrado Lanera and Dario Gregori
4. **Performance Comparison for Privacy-Preserving Federated Learning Frameworks**
   Shinto Pulickal Thomas, Thierry Bossy, Dario Gregori and Corrado Lanera
5. **Beyond Calibration and Resolution: A New Decomposition of Posterior Cross-Entropy for Evaluating Likelihood Ratio Systems**
   Giulia Cereda, Fabio Corradi and Cecilia Viscardi

16.00–16.45 **Break**

16.45–18.00 **Social Sciences and Humanities 2**
Room 1 *Chair: Luka Kronegger*

1. **From Online Support to Bystander Intervention: A Mixed-Methods Perspective on Intimate Partner Violence in Slovenia**
   Vanja Erčulj
2. **Monte Carlo Evaluation of Methods for Estimating Regression Coefficients Involving Latent Variables**
   Katja Škoda
3. **Evaluation of Health and Wellness Centres: A micro level study from Uttar Pradesh**
   Shraddha Bhatia and Vandana Dwivedi

16.45–18.00 **Measurement and Modeling**
Room 2 *Chair: Aleš Žiberna*

1. **Resolution, not frequency: a discrimination index of self-assessment and achievement in computer-based testing**
   Danilo Strugarevic, Nikola Gligorijevic, Vladimir Cabric, Rade Rakic and Dejan Andjelkovic
2. **Measurement invariance, predictive invariance and comparability of individual measurements**
   Gregor Sočan
3. **Detecting Asymmetric Persistence in Stationary Time Series: Reconstruction of a Modified Langevin Model from Natural Data**
   Zbigniew Czechowski
4. **One Population, Twenty Studies: A Simulation-Based Framework for Exploring Sources of Heterogeneity in Biomedical Research**
   Antonina Spalińska, Wojciech Glinkowski and Bartlomiej Michalak

19.00–19.45 **Piano Concert**

20.00–21.30 **Reception**

8.30–12.00 **Registration**

9.00–9.50 **Keynote**
Room 1 *Chair: Rok Blagus*

1. **The Firth correction – a recap and new developments**
   Georg Heinze

9.50–10.20 **Break**

10.20–11.50 **Biostatistics 1**
Room 1 *Chair: Georg Heinze*

1. **AUGglmmTMB: an R package for non-boundary estimation in binomial mixed effects models**
   Rok Blagus and Tina Košuta
2. **Net Survival Analysis in Thymic Malignancies: Preliminary Results from a SEER Cohort**
   Aqsa Ali, Gloria Brigiari, Ileana Baldi, Giulia Lorenzoni, Dario Gregori and Aslihan Şentürk Acar
3. **Challenges in Analysis of Longitudinal Observational Study: A Case of Osseointegration of Dental Implants**
   Nataša Kejžar, Maša Kušar and Sebastjan Perko
4. **From Bioinformatics Quality Control to Statistical Modelling: A Structured Initial Data Analysis Checklist for Human High-Dimensional Genotype Data**
   Cosimo Grazzini, Stefania Morelli, Elena Pilli, Giulia Cereda and Lara Lusa

10.20–11.50 **Artificial Intelligence 1**
Room 2 *Chair: Irena Ograjenšek*

1. **Beyond Traditional Methods: Exploring Machine Learning for Imputation in Official Statistics**
   Kaja Malešič and Matej Divjak
2. **Mathematical Modelling in Modern Science and Control: Impact on the Continuity of the Philosophy of Science, Major Disturbances in Engineering, and the Mystification and Masking of Knowledge**
   Robert Baždarić
3. **Correlation-Aware Bayesian Aggregation of Large Language Models with Identifiability and Calibrated, Distribution-Free Uncertainty**
   Irem Tanriverdi and Ceylan Yozgatligil
4. **On the Performance of Language Models in Structural Time-Series Classification**
   Yağmur Türkmen, Kerem Recep Gür, Pınar Cemre Yazıcı, Pelin Erkaya, Berke Baytak, Ismail Guzel, Pinar Karagoz and Ceylan Yozgatligil

11.50–12.00 **Break**

12.00–13.30 **Biostatistics 2**
Room 1 *Chair: Nataša Kejžar*

1. **Robustness and Reproducibility of Prognostic Factors in Lung Cancer: A Multiverse Analysis Based on SEER Data**
   Jiregna Olani Kedida, Stefania Lando, Gloria Brigiani, Mariavittoria Vescovo and Dario Gregori
2. **Safety assessment of CO_2 insufflation during PEG insertion: a non-inferiority study with a twist**
   Nuša Cesar, Matjaž Homan and Bor Vratanar
3. **Lead time estimation in cancer screening programmes: extension of the MOCCI method**
   Ema Požek and Bor Vratanar
4. **A Data-Augmentation Framework for Lq-Penalized Linear Mixed-Effects Models**
   Rok Blagus and Lan Gerdej

12.00–13.30 **Artificial Intelligence 2**
Room 2

1. **Artificial intelligence in survey research and beyond**
   Irena Ograjenšek and Matej Pičulin
2. **Distributional Feature Importance for Correlated Predictors**
   Burcu Koca Guler and Ceylan Yozgatligil
3. **A comparison of mixed-effects models and machine learning methods for longitudinal prediction**
   Mariša Ratajec and Rok Blagus
4. **Perceptual Aspects of Uncertainty Visualization**
   David Nabergoj, Bernarda Petek and Erik Štrumbelj

13.30–14.40 **Lunch**

14.40–16.10 **Statistical Applications 1**
Room 1 *Chair: Maja Pohar Perme*

1. **The impact of parallelism assumption in risk prediction models for ordinal outcomes**
   Hana Šinkovec
2. **A Comparison of Causal Inference Methods for Survival Analysis Using a Simulation Study**
   Petra Brlogar and Damjan Manevski
3. **Would the Lady Taste the Ratios? Concentration-Based and Compositional Analysis of Tea HPLC Data**
   Patrik Prša and Damijana Kastelec
4. **Working with real-life data: Challenges and opportunities**
   Dragan Tristan, Patricija Jaklič, Manca Prošek and Irena Ograjenšek

14.40–16.10 **Statistical Applications 2**
Room 2 *Chair: Nataša Kejžar*

1. **DBGenz: Efficient Integration of Multivariate Normal and t Probabilities**
   Jakob Peterlin and Nataša Kejžar
2. **How to divide by zero? The many existing solutions in logistic regression and a proposed new one**
   Gaj Vidmar and Jakob Peterlin
3. **Covariate-Adaptive Randomization in a Small-Sample Clinical Trial**
   Neža Nograšek and Nataša Kejžar
4. **Zero-Shot Classification of Water Quality Conditions from Multi-Resolution Satellite Imagery Using Vision-Language Foundation Models for Environmental Monitoring**
   Muhammad Zaid Qamar, Mohammed Ajaoud, Cristiano Ciccarelli and Massimiliano Lega
5. **Comparative analysis of co-occurrence-based and embedding-based word networks in biomedical literature**
   Tom Rupnik Medjedovič and Andrej Kastrin

16.10–16.15 **Closing**
Room 1

9.00–12.00 **Workshop**
Room 1

1. **The weight of evidence: Likelihood ratios in forensic statistics**
   Giulia Cereda