



SOR '23 programme

- Draft 2023-09-04 -



Slovenian Society INFORMATIKA
Section for Operational Research
- organizer -



University of Maribor
Faculty of Organizational Sciences

University of Maribor
Faculty of Organizational Sciences
- co-organizer -

University of Ljubljana
Faculty of Mechanical Engineering



University of Ljubljana
Faculty of Mechanical Engineering
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MDPI AG
Mathematics
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EXCELLERAT P2

The European Centre of Excellence for Engineering Applications
- sponsor -



Association of European Operational Research Societies
- supporter -

L7-3188

ARIS Research project
Hierarchical design and financing of social infrastructure of smart silver villages
- supporter -

Wednesday September 20, 2023	Thursday September 21, 2023	Friday September 22, 2023
8.15 – Registration	8.15 – Registration	8.15 – Registration
9.00 – 9.45 Opening ceremony (Hall I)	9.00 – 9.40 Plenary lecture (Hall I): (PL3) Victor Magron Institute of Mathematics from Toulouse, France	9.00 – 9.40 Plenary lecture (Hall I): (PL5) Mirjana Pejić Bach University of Zagreb, Croatia
9.50 – 10.30 Plenary lecture (Hall I): (PL1) Marc Sevaux (The EURO plenary) Université Bretagne Sud, France	9.45 – 11.00 Parallel sessions (Hall I, II and III): (SS4) DOM&MfRWPD + (SS5) GT + (S2) HR	9.45 – 10.45 Parallel sessions (Hall I, II and III): (SS1) AoORiAE + (SS4) DOM&MfRWPD + (SS6) I&S5.0
10.30 – 11.00 Coffee break	11.00 – 11.30 Coffee break	10.45 – 11.15 Coffee break
11.00 – 12.00 Parallel sessions (Hall I, II and III): (SS2) AoORiI&ME + (S1) EM&S + (SS8) UtBMoSE	11.30 – 13.00 Parallel sessions (Hall I and II): (SS4) DOM&MfRWPD + (S5) MP&O	11.15 – 12.30 Parallel sessions (Hall I, II and III): (SS1) AoORiAE + (S3) F&I + (SS6) I&S5.0
12.00 – 12.55 Lunch break	13.00 – 13.55 Lunch break	12.30 – 13.15 Closing ceremony (Hall I)
13.00 – 13.40 Plenary lecture (Hall I): (PL2) Andrej Kastrin University of Ljubljana, Slovenia	14.00 – 14.40 Plenary lecture (Hall I): (PL4) Suresh P. Sethi University of Texas at Dallas, USA	
14.15 – 22.00 Excursion with dinner	14.45 – 15.45 Parallel sessions (Hall I and II): (SS3) AiIB + (S3) F&I	
	15.45 – 16.15 Coffee break	
	16.15 – 18.00 Parallel sessions (Hall I, II and III): (S4) L&TG&tA + (S6) MCDM + (SS7) SIASSORM	
	18.15 – 20.00 Social event	

Plenary lectures: 30 minutes for presentation plus 10 minutes for discussion.

Contributed papers: 14 minutes all together for presentation and for discussion.

Wednesday

September 20, 2023

8.15 – Registration

9.00 – 9.45 Opening ceremony (Hall I)

9.50 – 10.30 **Plenary lecture** (Hall I, Chair: Lidija Zadnik Stirn)

PL1 – **Marc Sevaux**: Julia, a programming language for Operations Research (The EURO plenary)

10.30 – 11.00 Coffee break

11.00 – 12.00 Parallel sessions:

(SS2) Chairs: Darja Rupnik Poklucar and Janez Žerovnik
Applications of OR in Industry and Mechanical Engineering
 (Hall I)

(S1) Chair: Kosovka Ognjenović
Econometric Models and Statistics
 (Hall II)

(SS8) Chair: Milica Maričić and Veljko Jeremić
Unravelling the Business Models of Sharing Economy by Applying Methods of OR and Statistics
 (Hall III)

SS2.1 Simon Brezovnik, Darja Rupnik Poklucar and Janez Žerovnik: Roman and Italian Rainbow Domination Number of Graphs

SS2.2 Michaela Chocholatá: Heating with Solid Fuel in Slovak Dwellings: A GWR Approach

SS2.3 Igor Reznichenko, Primož Podržaj and Aljoša Peperko: Control Theory and Numerical Analysis of Magnetic Field Involving Mechanical Systems

SS2.4 Anita Talaja and Krešimir Samac: The Role of Resource Complementarity and Opportunism in Strategic Alliance Performance

S1.1 Peter Knížat and Andrea Furková: From Linear to Spatial Regression: Parametric Versus Nonparametric Functional Form

S1.2 Tomislav Korotaj, James Ming Chen and Nataša Kurnoga: Hierarchical Clustering of CEE Countries According to Educational and Labour Market Indicators

S1.3 Kosovka Ognjenović: Using the Stochastic Frontier Approach to Determine the Gender Wage Gap and Labour Market Efficiency

S1.4 Mario Pepur: Confirmatory Factor Analysis of the Sports Team Reputation Scale: A Case Study in Croatia

SS8.1 Milica Maricic, Katarina Cvetic, Marina Ignjatovic and Veljko Jeremic: Time Series Analysis of Airbnb House Rentals Price in the Balkan Region

SS8.2 Milica Maricic, Andrea Popovic, Katarina Cvetic and Marina Ignjatovic: Shared Accommodation in Europe: Consumer Behaviour Analysis

SS8.3 Veljko Uskokovic, Stefan Zdravkovic and Veljko Jeremic: Detecting Trending Topics Captivating Circular Economy: A Bibliometric-Based Approach

12.00 – 12.55 Lunch break

13.00 – 13.40 **Plenary lecture** (Hall I, Chair: Janez Žerovnik)

PL2 – **Andrej Kastrin**: Knowledge Discovery by Literature Mining: From Serendipity to Computational Creativity

15.20 – 22.00 **Excursion with dinner**

We will meet at the hotel Astoria lobby, take a bus and go to guided tour to the tunnels under the old town of Kranj (<https://www.visitkranj.com/en/sights/tunnels-under-the-old-town-of-kranj/>).

After the guided tour we will go to early dinner in the restaurant Lectar in Radovljica where we will take a culinary tour of Slovenian dishes (<https://www.lectar.com/>).

Thursday

September 21, 2023

8.15 – Registration

9.00 – 9.40 **Plenary lecture** (Hall I, Chair: Janez Povh)
 PL3 - **Victor Magron**: Sparse polynomial optimization: theory and practice

9.45 – 11.00 Parallel sessions:

(SS4) Chairs: B. Dávid and M. Krész Discrete Optimization Methods and Models for Real-World Problem Domain (Hall I)	(SS5) Chair: Tamás Solymosi Game Theory (Hall II)	(S2) Chair: Sarah Fores Human Resources (Hall III)
SS4.1 Daniil Baldouski, Balázs Dávid, György Dósa, Tibor Dulai, Ágnes Werner-Stark and Miklós Krész: Managing and Optimizing Container Flow in Port Logistics SS4.2 József Békési, Gábor Galambos and Imre Papp: Automatic Planning of Vehicle and Driver Schedules for Public Transportation: A Case Study SS4.3 Zuzana Borcinova and Peter Czimmermann; Edges which are Critical for Emergency Service Systems SS4.4 Peter Czimmermann: Detection of Critical Vertices for the Designed Service System SS4.5 Balázs Dávid: Optimization of Tree Bucking with Quality and Volume Requirements	SS5.1 Andrew Clausen and Christopher Staphenurst: Deterring Bribery with Scotch Hold'em Poker SS5.2 Péter Csóka and P. Jean-Jacques Herings: Non-Cooperative Bargaining on Debt Restructuring SS5.3 Martin Černý: Bounding Solution Concepts of Incomplete Cooperative Games SS5.4 Ziv Hellman and Miklós Pintér: Three Variations on Money Pump, Common Prior, and Trade SS5.5 Tamás Solymosi, Ata Atay and Marina Núñez: On the Core of Many-to-One Assignment Games	S2.1 Özlem Akarçay Pervin, Nimet Yapici Pehlivan and Gerhard Wilhelm Weber: Prediction of Heart Disease Using Classification and Feature Selection Methods S2.2 Luka Goropečnik, Jože Kropivšek, Matej Jošt and Lidija Zadnik Stirn: Competency Model Developed by Using a Multi-Criteria Approach and K-means Clustering S2.3 Marko Hell: The General Model for Curricula Structure Presentation - A Matrix Approach to Managing Curricula S2.4 Nikola Kadoić, Nikolina Žajdela Hrustek and Maja Gligora Marković: The Analysis of Eurovision Song Contest Results: The Differences between Public and Jury Votes S2.5 L. Mihelač and J. Povh: Computational Segmentation of Children's Melody

11.00 – 11.30 Coffee break

11.30 – 13.00 Parallel sessions:

(SS4) Chairs: B. Dávid and M. Krész Discrete Optimization Methods and Models for Real-World Problem Domain (Hall I)	(S5) Chair: Vedran Kojić Mathematical Programming and Optimization (Hall II)	
SS4.6 Murat Elhüseyni, Balázs Dávid, László Hajdu, and Miklós Krész: Distributed System Based Sensor Networks and the Connected P-Median Problem SS4.7 Zsolt Ercsey, Zoltán Kovács and Tamás Storcz: Optimal Schedule of a Sport Shooting Competition SS4.8 Emrecan Erdem, Ayşe Dilek Maden and Masood Ur Rehman: The Laplacian Energy of some Special Tree Families SS4.9 Jaroslav Horáček: A General Framework for Modelling Opinion Formation SS4.10 Jaroslav Janáček and Marek Kvet: Scatter Search For Bi-Criteria Public Service System Design SS4.11 Marek Kvet and Jaroslav Janáček: Intensification and Diversification for Pareto Front Approximation	S5.1 Helena Gaspars-Wieloch and Katarzyna Wyrębska: Impact of the Unitarization Technique on Final Rankings Based on the Goal Programming S5.2 Milan Hladík: A General Approach to Handle Complex Sensitivity Analysis in Linear Programming S5.3 Alf Kimms, Hédi Király and Christin Münch: Computational Geometry and Mathematical Programming: Combined Techniques and Selected Applications in Logistics S5.4 Vedran Kojić, Mira Krpan and Zrinka Lukač: A Simple Approach to Solving the Monopolist's Long-Run Profit Maximization Problem: The Case of the Hyperbolic Inverse Demand and Cobb-Douglas Production Functions with Two Factors of Production S5.5 Anita Varga and Marianna E.-Nagy: Numerical Comparison of Long-Step Interior Point Algorithms for Solving Linear Complementarity Problems	

Thursday

September 21, 2023

13.00 – 13.55 Lunch break

14.00 – 14.40 **Plenary lecture** (Hall I, Chair: Marija Bogataj)

PL4 - **Suresh P. Sethi**: Promoting Electric Vehicles: Reducing Charging Inconvenience and Price via Station and Consumer Subsidies

14.45 – 15.45 Parallel sessions:

(SS3) Chair: Mirjana Pejić Bach
Artificial Intelligence in Business: Obstacles and Perspectives (Hall I)

(S3) Chair: Ksenija Dumičić
Finance and Investments (Hall II)

SS3.1 Mile Bošnjak and Mirjana Pejić Bach: Factors Affecting COVID-19 Vaccine Uptake of Young Adults: Machine Learning Approaches
SS3.2 Aljaž Ferencek and Mirjana Kljajić Borštnar: Topic Modelling of Open Government Data Impact Areas Using GPT 3.5 Model
SS3.3 Tea Šestanović and Tea Kalinić Miličević: A MCDM Approach to Machine Learning Model Selection: Bitcoin Return Forecasting
SS3.4 Lukáš Veverka: Maximizing Ad Campaign Effectiveness through TV Viewership Analysis: A Machine Learning Investigation

S3.1 Ksenija Dumičić, Mihovil Anđelinović and Blagica Novkovska: Resource Productivity Influenced by Selected Circular Economy and Development Level Indicators: Profiles of Clustered EU Countries
S3.2 Adela Has, Kristina Hodak and Marinela Mokriš: Deep Learning for Predicting Corporate Financial Distress of Croatian IT Companies
S3.3 Aleš Kresta, Bahate Maidiya and Jialei Xiong: On AAI Sentiment Index Influence on S&P 500 Stocks
S3.4 Karol Szomolányi, Martin Lukáčik and Adriana Lukáčiková: Macroeconomic Facts of the EU27 Countries During the COVID-19 Pandemic

15.45 – 16.15 Coffee break

16.15 – 18.00 Parallel sessions:

(S4) Chair: Janez Žerovnik
Location and Transport, Graphs and their Applications (Hall I)

(S6) Chair: Vesna Čančer
Multi-Criteria Decision-Making (Hall II)

(SS7) Chairs: M. Bogataj, D. Bogataj and S. Drobne - Social Innovations in Ageing Studies Supported by OR Models (Hall III)

S4.1 David Bogataj and Francisco Campuzano-Bolarin: How Would the Construction of a New Container Port in Cartagena Influence the Reduction of Greenhouse Gas Pollution
S4.2 Elif Garajová and Miroslav Rada: Interval Transportation Problem: The Worst Finite Optimal Value is Hard for Inequalities
S4.3 Peter Juma Ochieng, József Dombi, Tibor Kalmár, Andrés London and Miklós Krész: Graph-Based Prioritization of Related Cancer Genes
S4.4 Juraj Pekár, Marian Reiff and Ivan Brezina: Location of Service Devices at any Point in Two-Dimensional Space
S4.5 Tina Šfiligoj and Aljoša Peperko: Estimating Node Importance in Public Transport Networks
S4.6 Rabia Taspinar and Burak Kocuk: Discretization-Based Solution Approaches for the Circle Packing Problem
S4.7 Janez Žerovnik: On t -Rainbow Domination Number of Generalized Petersen Graphs $P(ck, k)$

S6.1 Andrej Bregar, Anas Husseis and Jose Luis Flores: A MCDM Methodology for Cyberattack Mitigation
S6.2 Vesna Čančer: Measuring Accuracy of Approximation Methods for Priorities Derivation Based on Pairwise Comparisons
S6.3 Rok Drnovšek, Marija Milavec Kapun and Uroš Rajkovič: Risk Management in Healthcare: DEX (Decision Expert) Evaluation Model
S6.4 Petra Grošelj, Gregor Dolinar and Helena Erika Rojc: Aggregation of Individual Linguistic Evaluations in Spherical Analytic Hierarchy Process
S6.5 Jerzy Michnik: The Wings Model for Choice of Innovation Strategy
S6.6 Tjaša Šmidovnik and Petra Grošelj: Aggregating Individual Weights into Group Weights in Best-Worst Method
S6.7 Tadeusz Trzaskalik: AHP Application to Multistage Bipolar Method

SS7.1 Marija Bogataj, David Bogataj, Carmen Rajer, Suresh Sethi and Samo Drobne: The Influence of Residential Dispersion on the Optimal Long-Term Care of Senior Citizens
SS7.2 Samo Drobne and Marija Bogataj: Generational Distinctions in Migrations between Slovenian Municipalities
SS7.3 Samo Drobne and Marija Bogataj: The Impact of Hierarchical Spatial Levels on Internal Migration by Age Cohorts in Slovenia
SS7.4 Terezie Krestová, Aleš Kresta and Lucie Bestová: The Application of Age Management Practices in Organisations: Does the Economic Sector, Size, and Family Business Status Matter?
SS7.5 Josipa Višić: COVID-19 Pandemic and Profitability Determinants in Elderly Care Homes: Evidence from Croatia
SS7.6 Josipa Višić and Ivana Tomas Žiković: Panel Data Analysis in Predicting Demand for Institutional Long-Term Care for Older Adults
SS7.7 Berislav Žmuk: Elderly Population Activity in Croatia: Gender Comparison by Text Analysis Approach

18.15 – 20.00 **Social event**

We will meet at the hotel Astoria lobby and take a walk to Bled Rose Hotel. We will first listen to a piano concert performed by prof. dr. Tadeusz Trzaskalik and then taste the »kremšnit« (vanilla–custard–cream cake), one of the best known Slovenian desserts that is coming from Bled (<http://www.bled.si/en/what-to-see/symbols-of-bled/cream-cake>).

Friday

September 22, 2023

8.15 – Registration

9.00 – 9.40 **Plenary lecture** (Hall I, Chair: Mirjana Kljajić Borštnar)

PL5 – **Mirjana Pejić Bach**: Operations Research meets Artificial Intelligence: Intersection or Union

9.45 – 10.45 Parallel sessions:

(SS1) Chairs: Č. Rozman and K. Pažek Applications of OR in Agricultural Economics (Hall I)	(SS4) Chairs: B. Dávid and M. Krész Discrete Optimization Methods and Models for Real-World Problem Domain (Hall II)	(SS6) Chairs: D. Bokal and J. Povh Industry & Society 5.0: Optimization and Learning in Human and Industrial Environments (Hall III)
<p>SS1.1 Živa Alif, Tanja Šumrada and Jaka Žgajnar: Does Economic Situation Cause Land Abandonment? Estimating Economic Viability of Farming in a Sub-Mediterranean Region in Slovenia</p> <p>SS1.2 Maja Borlinič Gačnik, Boris Prevolšek, Antonio Peláez Verdet, Alfonso Cerezo Medina and Črtomir Rozman: Measuring the Efficiency of Spain's Wineries Through Data Envelopment Analysis</p> <p>SS1.3 Jure Brečko and Jaka Žgajnar: Price Volatility and Its Impact on Farm Operations, an Example of Analysis with a Farm Model</p> <p>SS1.4 Gregor Kramberger, Matjaž Glavan and Karmen Pažek: Building Resilient Agricultural Systems: A Multi-Stakeholder Approach for Sustainable Transformation</p>	<p>SS4.12 Giuseppe Lancia and Paolo Vidoni: Finding the Best 2-OPT Move on Nearly Random Euclidean TSP Tours in Average Linear Time</p> <p>SS4.13 Maciej Machowiak: The Moldable Tasks in Container Port Terminal</p> <p>SS4.14 Grzegorz Pawlak: Simulation Model for Cyclic Single Track Railway Problem</p> <p>SS4.15 Małgorzata Sterna and Bartłomiej Popielarz: Metaheuristic Methods for TV Advertisement Scheduling Problem</p>	<p>SS6.1 Kolos Cs. Ágoston, Marianna E.-Nagy and Janez Povh: Comparing Optimum KMEDIAN and MSS Clustering with Ground Truth Clustering</p> <p>SS6.2 Drago Bokal, Špela Tertinek, Anja Šketa, Janja Jerebic, Robert Repnik, Urška Martinc, Edita Rozina, Metka Zaletel, Branka Mirt and Vlasta Krmelj: Climate Risk Indicators for Small Communities – The Effect of Heat Stress on Mortality</p> <p>SS6.3 Alen Granda and Drago Bokal: On Code Quality and Code Relevance Metrics</p> <p>SS6.4 Elza Jurun, Daniela Garbin Praničević and Valentina Bašić Androja: Croatia Vs EU From the Perspective of Digital Skills</p>

10.45 – 11.15 Coffee break

11.15 – 12.30 Parallel sessions:

(SS1) Chairs: Č. Rozman and K. Pažek Applications of OR in Agricultural Economics (Hall I)	(S3) Chair: Tea Šestanović Finance and Investments (Hall II)	(SS6) Chairs: D. Bokal and J. Povh Industry & Society 5.0: Optimization and Learning in Human and Industrial Environments (Hall III)
<p>SS1.5 Nikola Obrenović, Maksim Lalić, Dimitrije Stefanović, Marko Panić, Sanja Brdar, Vladimir Cрноjević and Oskar Marko: Optimised Routing of the Blueberry Cultivating Unmanned Ground Vehicle</p> <p>SS1.6 Maja Petrač, Krunoslav Zmaić and Jaka Žgajnar: Typical Family Dairy Farms in the Republic of Croatia</p> <p>SS1.7 Boris Prevolšek, Larisa Lorbek, Maja Borlinič Gačnik and Črtomir Rozman: Multi-Criteria Model for Assessment of SPA Service Quality</p> <p>SS1.8 Jaka Žgajnar and Lidija Zadnik Stirn: The Use of Operation Research Methods to Support Agricultural Policy</p>	<p>S3.5 Ivana Jerković, Ana Rimac Smiljanić and Blanka Škrabić Perić: Interdependence between Cryptocurrency Adoption and Financial Literacy: A Cross-Country Evidence</p> <p>S3.6 Vladimir Šimić: The Impact of Globalization on Government Consumption – Worldwide Evidence</p> <p>S3.7 Ante Toni Vrdoljak and Zdravka Aljinović: The Impact of Financial Literacy and Sociodemographic Factors on Investor Preferences</p> <p>S3.8 Marija Vuković: The Role of the Financing Source in the Behavioral Intention to Buy Real Estate: Multigroup Analysis</p>	<p>SS6.5 Nataša Ošep Ferš and Aleš Zamuda: Improvement in Continuous Black-box Setting Search Performance by Tuning L-SHADE Differential Evolution Historical Memory Size Parameter</p> <p>SS6.6 Melani Potrč, Klemen Tršinar, Špela Kajzer, Špela Tertinek, Urška Martinc and Drago Bokal: The Maturity Model for Climate Neutrality and Business Process Optimization in Slovenian Companies of the Future</p> <p>SS6.7 Janez Povh and Aljaž Krpan: Partitioning Graphs for Advancing Stable Set Problem Solutions through Quantum Annealers</p> <p>SS6.8 Janez Povh and Dunja Pucher: Advancing Stable Set Problem Solutions through Quantum Annealers</p> <p>SS6.9 Aleš Zamuda: Solving 100-Digit Challenge with Score 100 by Extended Running Time and Parallel Benchmarking</p>

12.30 – 13.15 Closing ceremony (Hall I)



The 17th International Symposium on Operational Research in Slovenia – SOR '23

September 20 – 22, 2023, Bled, Slovenia

<https://sor.fov.um.si/>

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