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

September 20 – 22, 2023, Bled, Slovenia
https://sor.fov.um.si/

SOR '23 programme

Slovenian Society INFORMATIKA
Section for Operational Research
- organizer -

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

University of Ljubljana
Faculty of Mechanical Engineering
- co-organizer -

MDPI AG
Mathematics
- sponsor -

EURO
Association of European Operational Research Societies
- supporter -

EuroCC2
National Competence Centres in the framework of EuroHPC
- supporter -

The European Centre of Excellence for Engineering Applications
- supporter -

Rudolfovo
The Scientific and Technological Centre in Novo Mesto
- supporter -

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**	9.40 – 9.55 **Plenary lecture (Hall I): (PL6) Janez Povh** Rudolfovo and University of Ljubljana, Slovenia
10.30 – 11.00 Coffee break	11.00 – 11.30 Coffee break	10.00 – 11.00 Parallel sessions (Hall I, II and III): **(SS6) I&S5.0 + (SS4) DOM&MfRWPD + (SS1) AoORiAE**
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**	11.00 – 11.30 Coffee break
12.00 – 12.55 Lunch break	13.00 – 13.55 Lunch break	11.30 – 12.45 Parallel sessions (Hall I and II): **(SS6) AoORiAE + (S3) F&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, II and III): **(SS3) AIiB + (S3) F&I + (SS1) AoORiAE**	12.50 – 13.30 Closing ceremony (Hall 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) SIiASSORM**	
	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 Poklukar 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 Poklukar 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, Stefan Komazec and Veljko Jeremic: Detecting Trending Topics Captivating Circular Economy: A Bibliometric-Based Approach SS8.4 Marija Vuković: The Role of the Financing Source in the Behavioral Intention to Buy Real Estate: Multigroup Analysis

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

14.15 – 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/).

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 Stapenhurst: 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 Núnez: On the Core of Many-to-One Assignment Games	S2.1 Özlem Akarçay Pervın, Nimet Yapici Pehlıvan 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 Analyis 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

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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)	**(SS1)** Chairs: Č. Rozman and K. Pažek **Applications of OR in Agricultural Economics** (Hall III)
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 Milićević: 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 Aleš Kresta, Bahate Maidiya and Jialei Xiong: On AAII Sentiment Index Influence on S&P 500 Stocks S3.3 Karol Szomolányi, Martin Lukáčik and Adriana Lukáčiková: Macroeconomic Facts of the EU27 Countries During the COVID-19 Pandemic	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 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 SS1.3 Jure Brečko and Jaka Žgajnar: Price Volatility and Its Impact on Farm Operations, an Example of Analysis with a Farm Model SS1.4 Gregor Kramberger, Matjaž Glavan and Karmen Pažek: Building Resilient Agricultural Systems: A Multi-Stakeholder Approach for Sustainable Transformation

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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, András 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 Tadeusz Trzaskalik: AHP Application to Multistage Bipolar Method S6.2 Andrej Bregar, Anas Husseis and Jose Luis Flores: A MCDM Methodology for Cyberattack Mitigation S6.3 Vesna Čančer: Measuring Accuracy of Approximation Methods for Priorities Derivation Based on Pairwise Comparisons S6.4 Rok Drnovšek, Marija Milavec Kapun and Uroš Rajkovič: Risk Management in Healthcare: DEX (Decision Expert) Evaluation Model S6.5 Petra Grošelj, Gregor Dolinar and Helena Erika Rojc: Aggregation of Individual Linguistic Evaluations in Spherical Analytic Hierarchy Process S6.6 Jerzy Michnik: The Wings Model for Choice of Innovation Strategy S6.7 Tjaša Šmidovnik and Petra Grošelj: Aggregating Individual Weights into Group Weights in Best-Worst Method	SS7.1 Samo Drobne and Marija Bogataj: Generational Distinctions in Migrations between Slovenian Municipalities SS7.2 Samo Drobne and Marija Bogataj: The Impact of Hierarchical Spatial Levels on Internal Migration by Age Cohorts in Slovenia SS7.3 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? SS7.4 Josipa Višić: COVID-19 Pandemic and Profitability Determinants in Elderly Care Homes: Evidence from Croatia SS7.5 Josipa Višić and Ivana Tomas Žiković: Panel Data Analysis in Predicting Demand for Institutional Long-Term Care for Older Adults SS7.6 Berislav Žmuk: Elderly Population Activity in Croatia: Gender Comparison by Text Analysis Approach SS7.7 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

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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 »kremšnita« (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

9.40 – 9.55 **Plenary lecture** (Hall I, Chair: Mirjana Kljajić Borštnar)
PL6 – **Janez Povh**: European Competence Centre for High Performance Computing

10.00 – 11.00 Parallel sessions:

(SS6) Chairs: D. Bokal and J. Povh **Industry & Society 5.0: Optimization and Learning in Human and Industrial Environments** (Hall I)	**(SS4)** Chairs: B. Dávid and M. Krész **Discrete Optimization Methods and Models for Real-World Problem Domain** (Hall II)	**(SS1)** Chairs: Č. Rozman and K. Pažek **Applications of OR in Agricultural Economics** (Hall III)
SS6.1 Kolos Cs. Ágoston, Marianna E.-Nagy and Janez Povh: Comparing Optimum KMEDIAN and MSS Clustering with Ground Truth Clustering 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 SS6.3 Alen Granda and Drago Bokal: On Code Quality and Code Relevance Metrics SS6.4 Elza Jurun, Daniela Garbin Praničević and Valentina Bašić Androja: Croatia Vs EU From the Perspective of Digital Skills	SS4.12 Giuseppe Lancia and Paolo Vidoni: Finding the Best 2-OPT Move on Nearly Random Euclidean TSP Tours in Average Linear Time SS4.13 Maciej Machowiak: The Moldable Tasks in Container Port Terminal SS4.14 Grzegorz Pawlak: Simulation Model for Cyclic Single Track Railway Problem SS4.15 Małgorzata Sterna and Bartłomiej Popielarz: Metaheuristic Methods for TV Advertisement Scheduling Problem	SS1.5 Nikola Obrenović, Maksim Lalić, Dimitrije Stefanović, Marko Panić, Sanja Brdar, Vladimir Crnojević and Oskar Marko: Optimised Routing of the Blueberry Cultivating Unmanned Ground Vehicle SS1.6 Maja Petrač, Krunoslav Zmaić and Jaka Žgajnar: Typical Family Dairy Farms in the Republic of Croatia SS1.7 Boris Prevolšek, Larisa Lorbek, Maja Borlinič Gačnik and Črtomir Rozman: Multi-Criteria Model for Assessment of SPA Service Quality SS1.8 Jaka Žgajnar and Lidija Zadnik Stirn: The Use of Operation Research Methods to Support Agricultural Policy

11.00 – 11.30 Coffee break

11.30 – 12.45 Parallel sessions:

(SS6) Chairs: D. Bokal and J. Povh **Industry & Society 5.0: Optimization and Learning in Human and Industrial Environments** (Hall I)	**(S3)** Chair: Ksenija Dumičić **Finance and Investments** (Hall II)	
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 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 SS6.7 Janez Povh and Aljaž Krpan: Partitioning Graphs for Advancing Stable Set Problem Solutions through Quantum Annealers SS6.8 Janez Povh and Dunja Pucher: Advancing Stable Set Problem Solutions through Quantum Annealers SS6.9 Aleš Zamuda: Solving 100-Digit Challenge with Score 100 by Extended Running Time and Parallel Benchmarking	S3.5 Ivana Jerković, Ana Rimac Smiljanić and Blanka Škrabić Perić: Interdependence between Cryptocurrency Adoption and Financial Literacy: A Cross-Country Evidence S3.6 Vladimir Šimić: The Impact of Globalization on Government Consumption – Worldwide Evidence S3.7 Ante Toni Vrdoljak and Zdravka Aljinović: The Impact of Financial Literacy and Sociodemographic Factors on Investor Preferences S3.8 Adela Has, Kristina Hodak and Marinela Mokriš: Deep Learning for Predicting Corporate Financial Distress of Croatian IT Companies	

12.50 – 13.30 Closing ceremony (Hall I)

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Program Committee:

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