



SOR'19 programme



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Wednesday September 25, 2019	Thursday September 26, 2019	Friday September 27, 2019
8.15 – Registration	8.15 – Registration	8.15 – Registration
9.00 – 9.45 Opening ceremony (Hall I)	9.00 – 9.50 Plenary lecture (Hall I): (PL3) Tibor Illés Budapest University of Technology and Economics, Hungary	9.00 – 9.50 Plenary lecture (Hall I): (PL5) Matej Praprotnik National Institute of Chemistry, Slovenia
9.50 – 10.40 Plenary lecture (Hall I): (PL1) Ivan Bratko Slovenian Academy of Sciences and Arts, and University of Ljubljana, Slovenia	10.00 – 11.15 Parallel sessions (Hall I, II and III): (SS1) AORiA&AM + (SS6) SM&SOR + (SS7) TI4.0	10.00 – 11.15 Parallel sessions (Hall I, II and III): (SS3) GT&A + (S1) EM&S + (S3) F&I
10.45 – 11.15 Coffee break	11.15 – 11.45 Coffee break	11.15 – 11.45 Coffee break
11.15 – 12.45 Parallel sessions (Hall I, II and III): (S6) MCDM + (S8) P&M + (S2) E&SI	11.45 – 12.45 Parallel sessions (Hall I, II and III): (SS4) HPC&BD + (S4) LTGA + (SS2) F&BIIMCDM	11.45 – 13.30 Parallel sessions (Hall I, II and III): (SS3) GT&A + (S1) EM&S + (S3) F&I
12.45 – 13.55 Lunch break	12.45 – 13.55 Lunch break	13.40 – 14.20 Closing ceremony (Hall I)
14.00 – 14.50 Plenary lecture (Hall I): (PL2) Mirjana Čizmešija University of Zagreb, Croatia	14.00 – 14.50 Plenary lecture (Hall I): (PL4) Joanna Józefowska (The EURO plenary) Poznań University of Technology, Poland	
15.20 – 22.00 Excursion with dinner	15.00 – 16.00 Parallel sessions (Hall I, II and III): (S5) MP&O + (SS2) F&BIIMCDM + (SS5) OiHE	
	16.00 – 16.30 Coffee break	
	16.30 – 17.45 Parallel sessions (Hall I, II and III): (S5) MP&O + (S7) HR + (SS5) OiHE	
	18.00 – 19.30 Social event	

Plenary lectures: 40 minutes for presentation plus 10 minutes for discussion.

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

Wednesday

September 25, 2019

8.15 – Registration

9.00 – 9.45 Opening ceremony (Hall I)

9.50 – 10.40 **Plenary lecture** (Hall I, Chair: Niko Schlamberger)
 PL1 – **Ivan Bratko**: Robot Learning and Planning with Qualitative Representations

10.45 – 11.15 Coffee break

11.15 – 12.45 Parallel sessions:

(S6) Chair: Tunjo Perić Multi-Criteria Decision-Making (Hall I)	(S8) Chair: Liljana Ferbar Tratar Production and Management (Hall II)	(S2) Chair: Lidija Zadnik Stirn Environment and Social Issues (Hall III)
<p>S6.1 - Andrej Bregar: Experimental Evaluation of Multiple Criteria Utility Models with Veto Related Preference Structures</p> <p>S6.2 - Rok Drnovšek, Marija Milavec Kapun, Vladislav Rajkovič and Uroš Rajkovič: Multi-Attribute Risk Assessment Model for Developing Ventilator-Associated Pneumonia</p> <p>S6.3 - Josip Matejaš, Tunjo Perić and Danijel Mlinarić: On Sustainable Principles in Multi Objective Programming Problems</p> <p>S6.4 - Liu Shiang-Tai: A Heuristic Algorithm Approach to Imprecise Malmquist Productivity Index</p> <p>S6.5 - Srečko Zakrajšek, Eva Jereb, Uroš Rajkovič, Vladislav Rajkovič and Mojca Bernik: A Multi-Criteria, Hierarchical Model for the Evaluation of Scenarios that Facilitate the Development of Digital Competences of Gymnasium Students in the Republic of Slovenia</p> <p>S6.6 - Tunjo Perić, Zoran Babić and Slavko Matanović: Decision Making in Complex Decentralized Business Systems by Multi-Level Multi-Objective Linear Programming Methods</p>	<p>S8.1 - Helena Brožová, Tomáš Šubrt, Jan Rydval and Petra Pavlíčková: Fuzzy Threatness Matrices in Project Management</p> <p>S8.2 - Vedran Kojić and Zrinka Lukač: On the Cost Minimization Problem with CES Technology: Reverse Hölder's Inequality Approach</p> <p>S8.3 - Ilko Vrankić, Mirjana Pejić Bach and Tomislav Herceg: Cooperativeness in Duopoly from an Evolutionary Game Theory Perspective</p> <p>S8.4 - Vedran Kojić, Zrinka Lukač and Krunoslav Puljić: On the Properties of the Sato Production Function</p> <p>S8.5 - Liljana Ferbar Tratar and Ansari Saleh Ahmar: The Comparison of Holt-Winters Methods and A-Sutte Indicator in Forecasting the Foreign Visitor Arrivals in Indonesia, Malaysia, and Japan</p>	<p>S2.1 - Wellington Alves, Ângela Silva and Helena Sofia Rodrigues: Sustainable Practices: An Analysis of Portuguese Companies</p> <p>S2.2 - János Baumgartner and Zoltán Süle: Cost Optimal Process Design with Reliability Constraints</p> <p>S2.3 - Petra Grošelj, Lidija Zadnik Stirn and Gregor Dolinar: Aggregation of Individual Judgments into Group Interval Judgments in AHP</p> <p>S2.4 - Marek Kvet and Jaroslav Janáček: Population Diversity Maintenance Using Uniformly Deployed Set of p-Location Problem Solutions</p> <p>S2.5 - Samo Drobne and Marija Bogataj: The Role of Local Action Groups for the Optimal Allocation of Investments in the Long-Term Care</p> <p>S2.6 - Ângela Silva, Wellington Alves and Helena Sofia Rodrigues: Level of Implementation of Lean Manufacturing Tools: A Case Study in the North of Portugal</p>

12.45 – 13.55 Lunch break

Wednesday

September 25, 2019

14.00 – 14.50 **Plenary lecture** (Hall I, Chair: Janez Povh)

PL2 - **Mirjana Čižmešija**: Economic Sentiment in Quantitative Analysis

15.20 – 22.00 **Excursion with dinner**

We will meet at the hotel Astoria lobby, take a bus and go to guided tour to Vintgar gorge in Gorje village near Bled (<http://www.vintgar.si/vintgar-gorge/?lang=en>).

After the guided tour we will go to early dinner in restaurant at Šobec where we will take a culinary tour of Slovenian dishes (<https://www.sobec.si/en/facilities/restaurant.html>).

Thursday

September 26, 2019

8.15 – Registration

9.00 – 9.50 **Plenary lecture** (Hall I, Chair: Janez Žerovnik)

PL3 - **Tibor Illés**: Sufficient Linear Complementarity Problems – Pivot Versus Interior Point Algorithms

10.00 – 11.15 Parallel sessions:

(SS1) Chair: K. Pažek and Č. Rozman Application of OR in Agriculture and Agribusiness Management (Hall I)	(SS6) Chair: Jerzy Michnik System Modelling & Soft Operational Research (Hall II)	(SS7) Chair: Niko Herakovič and Janez Kušar Towards Industry 4.0 (Hall III)
<p>SS1.1 - Karmen Pažek and Tina Kep: Project Planning for Cattle Stall Construction Using Critical Path Method</p> <p>SS1.2 - Boris Prevolšek, Karmen Pažek, Maja Žibert and Črtomir Rozman: Using Data Envelopment Analysis and Analytic Hierarchy Process to Measure Efficiency of Tourism Farms: Case of Slovenia</p> <p>SS1.3 - Aneta Trajanov, Jaap Schröder, David Wall, Antonio Delgado, Rogier Schulte and Marko Debeljak: Assessing the Nutrient Cycling Potential in Agricultural Soils Using Decision Modelling</p> <p>SS1.4 - Jožef Vinčec, Karmen Pažek, Črtomir Rozman and Jernej Prišenk: Application of Weighted Goal Programming Method for Hybrids Selection of Endives</p> <p>SS1.5 - Maja Žibert, Črtomir Rozman, Boris Prevolšek and Andrej Škraba: The System Dynamics Model for Diversification of Agricultural Holdings into Farm Tourism</p>	<p>SS6.1 - Dariusz Banas: A Unified Environment for Quantitative and Qualitative Modelling of Dynamic Systems</p> <p>SS6.2 - Katarína Cechlárová, Diana Plačková and Tatiana Baltesová: Modelling the Kidney Transplant Waiting List</p> <p>SS6.3 - Mario Jadrić: Framework for Discrete-Event Simulation Modeling Supported by LMS Data and Process Mining</p> <p>SS6.4 - Polona Pavlovčič Prešeren and Aleš Marjetič: Particle Swarm Optimization in Geodetic Datum Transformation</p> <p>SS6.5 - Jerzy Michnik: IT Service Business Analysis with Balanced Scorecard and Weighted Influence Non-Linear Gauge System</p>	<p>S6.1 - Mihael Debevec and Niko Herakovič: Digital Twin of Unique Type of Production for Innovative Training of Production Specialists</p> <p>S6.2 - Matic Muc, Vili Malnarič, Jernej Klemenc and Janez Žerovnik: Physical Testing of a Trailing Arm by Discrete Optimization</p> <p>S6.3 - Miha Pipan, Jernej Protner and Niko Herakovič: Distributed Manufacturing Node Control with Digital Twin</p> <p>S6.4 - Jaka Toman, Uroš Rajkovič and Mirjana Kljajić Borštnar: Scrap Determination with Process Mining – Literature Review</p> <p>S6.5 - Tena Žužek, Lidija Rihar, Tomaž Berlec and Janez Kušar: Use of a Standard Risk Model and a Risk Map for Product Development Project Planning and Management</p>

11.15 – 11.45 Coffee break

11.45 – 12.45 Parallel sessions:

(SS4) Chair: Janez Povh and Mirjana Kljajić Borštnar High-Performance Computing and Big Data (Hall I)	(S4) Chair: Marija Bogataj Location and Transport, Graphs and their Applications (Hall II)	(SS2) Chair: Tadeusz Trzaskalik and Tomasz Wachowicz Formal and behavioral issues in MCDM (Hall III)
<p>SS4.1 - Agnès Ansari, Alberto Garcia Fernandez, Bertrand Rigaud, Marco Rorro and Andreas Vroutsis: Running Deep Learning Experiments over the PRACE 5IP Infrastructure</p> <p>SS4.2 - Blaž Gašperlin, Tomi Ilijaš and Mirjana Kljajić Borštnar: Opportunities of Cloud High Performance Computing for Smes – A Meta-Analysis</p> <p>SS4.3 - Timotej Hrga and Janez Povh: Accelerated Alternating Direction Augmented Lagrangian Method for Semidefinite Programs</p> <p>SS4.4 - Alen Vegi Kalamar, Drago Bokal and Janez Povh: Parallelization of BiqMac Solver</p>	<p>S4.1 - Samo Drobne, Alberto Garre, Eloy Hontoria and Miha Konjar: Functional Regions Detection by Walktrap and Chains' Methods</p> <p>S4.2 - Dobroslav Grygar and Michal Kohani: Data Conversion and Exact Approach to Overhead Wires Network Minimisation for the Battery Assisted Trolleybus Fleet</p> <p>S4.3 - Slobodan Jelić: RealForAll Pollen Semaphore: A Short-Term Prediction System for Airborne Pollen Concentrations Based on Neural Nets</p> <p>S4.4 - Francisco Campuzano-Bolarín, Fulgencio Marín-García, José Andrés Moreno-Nicolás, Marija Bogataj and David Bogataj: Evaluation of Net Present Value in Supply Chains Using Network Simulation Method</p>	<p>SS2.1 - Helena Gaspars-Wieloch: A Scenario-Based AHP Method for One-Shot Decisions and Independent Criteria</p> <p>SS2.2 - Nikola Kadoić, Nina Begičević Redep and Blaženka Divjak: Application of PageRank Centrality in Multi-Criteria Decision Making</p> <p>SS2.3 - Tadeusz Trzaskalik: Bipolar Sorting and Ranking of Multistage Alternatives</p>

Thursday

September 26, 2019

12.45 – 13.55 Lunch break

14.00 – 14.50 **Plenary lecture** (Hall I, Chair: Immanuel Bomze)
 PL4 - **Joanna Józefowska**: Just-in-Time Scheduling (The EURO plenary)

15.00 – 16.00 Parallel sessions:

(S5) Chair: Zrinka Lukač Mathematical Programming and Optimization (Hall I)	(SS2) Chair: Tadeusz Trzaskalik and Tomasz Wachowicz Formal and behavioral issues in MCDM (Hall II)	(SS5) Chairs: Andrej Košir and Drago Bokal Optimization in Human Environments (Hall III)
S5.1 - Dávid Balázs: A Tabu Search Method for Optimizing Heterogeneous Structural Frames S5.2 - Aua-aree Boonperm and Wutiphol Sintunavarat: An Artificial-Variable-Free Simplex Method Involving the Choices of Initial Solutions S5.3 - Zsolt Darvay, Petra Renáta Rigó and Eszter Szénási: Infeasible Interior-Point Algorithm for Linear Optimization Based on a New Search Direction S5.4 - Marianna E.-Nagy: Linear Complementarity Problem and Sufficient Matrix Class	SS2.4 - Ayşegül Engin and Rudolf Vetschera: Overconfidence in Electronic Reverse Auctions SS2.5 - Tomasz Wachowicz, Ewa Roszkowska and Marzena Filipowicz-Chomko: Decision Making Profile and the Choices of Preference Elicitation Mode – A Case of Using GDMS Inventory SS2.6 - Tomasz Wachowicz and Ewa Roszkowska: Investigating the Self-Serving Bias in Software Supported Multiple Criteria Decision Making Process SS2.7 - Marija Vuković, Snježana Pivac and Marijana Šemanović: Waste Management Consequences - Case Study on the Island of Brač	SS5.1 - Petra Fic and Drago Bokal: Innovative Veristic Perceptions do Have a Chance: An Instance of Artificial Technological Valley of Death SS5.2 - Drago Bokal and Špela Tertinek: Bounded Time Availability is What Narrative Incohesion, Behavioral Sink, Behavioral Addiction, and Online Social Bubbles Have in Common SS5.3 - Andreja Smole, Timotej Jagrič and Drago Bokal: Principal-Leader-Follower Model with Internal Signal SS5.4 - Drago Bokal, Robert Repnik, Špela Tertinek, Alen Vegi Kalamar and Tadej Žerak: Optimality of Flipped Learning Experience: A Case Study of Using 2-Crossing-Critical Graphs for Early Research Exposure

16.00 – 16.30 Coffee break

16.30 – 17.45 Parallel sessions:

(S5) Chair: Katarína Cechlárová Mathematical Programming and Optimization (Hall I)	(S7) Chair: Vesna Čančer Human Resources (Hall II)	(SS5) Chairs: Andrej Košir and Drago Bokal Optimization in Human Environments (Hall III)
S5.5 - Milan Hladík: Interval Robustness of Matrix Properties for the Linear Complementarity Problem S5.6 - Jaroslav Janáček and Marek Kvet: Usage of Uniformly Deployed Set for P-Location Min-Sum Problem with Generalized Disutility S5.7 - Miroslav Rada, Elif Garajová, Jaroslav Horáček and Milan Hladík: A New Pruning Test for Parametric Interval Linear Systems S5.8 - Anita Varga, Marianna E.-Nagy and Tibor Illés: Interior Point Heuristics for a Class of Market Exchange Models S5.9 - Dragan Jukić and Kristian Sabo: An Existence Criterion for the Sum of Squares S5.10 - Tibor Illés and Dávid Tollner: Models and Solution Methods for the Pooling Problem	S7.1 - Andrea Furková and Michaela Chocholatá: Spatial Interactions and the Regional Employment in the EU S7.2 - Blaženka Knežević, Petra Škrobot and Berislav Žmuk: Perceptions on Social Supermarkets' Managers in Croatia, Lithuania, Poland and Serbia S7.3 - Maja Rožman and Vesna Čančer: Structural Equation Modeling in the Case of Older Employees in Financial Service Companies S7.4 - Lorena Mihelač and Janez Povh: The Impact of Harmony on the Perception of Music	SS5.5 - Dean Lipovac, László Hajdu, Sølvi Therese Strømme Wie and Anders Qvale Nyrud: Minimizing Human Stress in Social Networks with Targeted Interventions SS5.6 - Evin Aslan Oğuz and Andrej Košir: Multimedia-Content-Index Based Experimental Content Selection SS5.7 - Ľudmila Jánošíková, Peter Jankovič and Stanislav Mikoľajčík: Demand Point Aggregation in Urban Emergency Medical Service: A Case Study from Slovakia SS6.8 - Nataša Erjavec, Boris Cota and Saša Jakšič: Barriers to International Trade and Export Competitiveness of the EU New Member States

18.00 – 19.30 **Social event**

We will meet at the hotel Astoria lobby and take a walk to Hotel Toplice. 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 27, 2019

8.15 – Registration

9.00 – 9.50 **Plenary lecture** (Hall I, Chair: Vladislav Rajkovič)
 PL5 - **Matej Praprotnik**: Scientific Case for Computing in Europe 2018-2026

10.00 – 11.15 Parallel sessions:

(S3) Chair: Eloy Hontoria Finance and Investments (Hall I)	(SS3) Chair: Sandi Klavžar Graph Theory and Algorithms (Hall II)	(S1) Chair: Ksenija Dumičić Econometric Models and Statistics (Hall III)
<p>S3.1 - Erzsébet Kovács and Ágnes Vaskövi: Rational or Irrational? - Pension Expectations in Hungary</p> <p>S3.2 - Michaela Chocholatá: Co-Movements of Exchange Rate Returns: Multivariate Garch Approach</p> <p>S3.3 - Margareta Gardijan Kedžo and Ana Škrlec: Are Investment Constraints of Mandatory Pension Funds Restricting their Performance: Case of Croatia</p> <p>S3.4 - Tihana Škrinjarić and Mirjana Čižmešija: Investor Attention and Risk Predictability: A Spillover Index Approach</p>	<p>SS3.1 - Kolos Csaba Ágoston, Snježana Majstorović and Vaskövi Ágnes: Spectral Clustering of Survival Curves</p> <p>SS3.2 - Immanuel Bomze, Michael Kahr and Markus Leitner: Robust Clustering in Social Networks</p> <p>SS3.3 - Sergio Cabello and Éric Colin de Verdière: Hardness of Minimum Activation Path</p> <p>SS3.4 - Radoslaw Cymer and Miklós Krész: On the Complexity of a Filtering Problem for Constraint Programming: Decomposition by the Structure of Perfect Matchings</p> <p>SS3.5 - Sandi Klavžar: The general position problem on graphs</p>	<p>S1.1 - Samo Drobne and Metka Mesojedec: Multi-Constrained Gravity Model of Labour Commuting: Case Study of Slovenia</p> <p>S1.2 - Aljaž Ferencek, Mirjana Kljajić Borštnar, Davorin Kofjač, Andrej Škraba and Blaž Sašek: Deep Learning Predictive Models for Terminal Call Rate Prediction During the Warranty Period</p> <p>S1.3 - Ljubica Milanović Glavan: Determining Business Process Maturity Levels by Using Cluster Analysis: Case of Croatia</p> <p>S1.4 - Petra Tomanová: Clustering of Arrivals and Its Impact on Process Simulation</p> <p>S1.5 - Ksenija Dumičić and Ivana Cunjak Mataković: Challenges of Benford's Law Goodness-of-Fit Testing in Discovering the Distribution of First Digits: Comparison of Two Industries</p>

11.15 – 11.45 Coffee break

Friday

September 27, 2019

11.45 – 13.30 Parallel sessions:

(S3) Chair: Tihana Škrinjarić Finance and Investments (Hall I)	(SS3) Chair: Janez Žerovnik Graph Theory and Algorithms (Hall II)	(S1) Chair: Mirjana Pejić-Bach Econometric Models and Statistics (Hall III)
<p>S3.6 - Vladimír Holý: Score-Driven Count Time Series</p> <p>S3.7 - Marko Jakšič: Benefits of Inventory Information Sharing in a Hybrid MTS/MTO System</p> <p>S3.8 - Kolos Csaba Ágoston, Márton Gyetvai and László Kovács: Optimization of Transition Rules Based on Claim Amounts in a Bonus-Malus System</p> <p>S3.9 - Aleš Kresta and Anlan Wang: Efficiency Test as the Benchmark for Minimum-Risk Portfolio Optimization Strategies</p> <p>S3.10 - Petr Volf: Optimization of Costs of Preventive Maintenance</p> <p>S3.10 - Tihana Škrinjarić and Boško Šego: Grey Systems Modeling as a Tool for Stock Price Prediction</p>	<p>SS3.6 - Boštjan Gabrovšek, Tina Novak, Janez Povh, Darja Rupnik Poklucar and Janez Žerovnik: Five Heuristics for the k-Matching Problem</p> <p>SS3.7 - Boštjan Gabrovšek, Aljoša Peperko and Janez Žerovnik: On the Independent Rainbow Domination Numbers of Generalized Petersen Graphs $P(n, 2)$ and $P(n, 3)$</p> <p>SS3.8 - Nicolò Gusmeroli and Angelika Wiegele: An Exact Penalty Method over Discrete Sets</p> <p>SS3.9 - Tina Novak and Janez Žerovnik: k-Fair Domination Problem in Cactus Graphs</p> <p>SS3.10 - Darja Rupnik Poklucar and Janez Žerovnik: Networks with Extremal Closeness</p> <p>SS3.11 - Gregor Rus and Alenka Brezavšček: Graph Theory Applications in Computer Network Security: A Literature Review</p> <p>SS3.12 - Anja Žnidaršič, Manja Krajncič and Drago Bokal: Fraud Detection in Transactions Using Social Network Analysis</p>	<p>S1.6 - Ksenija Dumičič, Berislav Žmuk and Anita Harmina: Clusters of European Countries Regarding Recent Changes in Business Demography Statistics</p> <p>S1.7 - Josipa Višič: Predicting Future Markets for Personal Service Robots</p> <p>S1.8 - Bože Vuleta, Elza Jurun and Nada Ratković: Statistical Analysis of the Public Opinion Survey on Free Sunday</p> <p>S1.9 - Jovana Zoroja, Anton Florijan Barišič and Mirjana Pejić-Bach: E-Government Usage in European Countries: Gender and Educational Differences</p> <p>S1.10 - Berislav Žmuk and Anita Čeh Časni: Nonresponse in Business Web Surveys: Sources and Measures</p>
<p>13.40 – 14.20 Closing ceremony (Hall I)</p>		



Program Committee:

- L. Zadnik Stirn, University of Ljubljana, Biotechnical Faculty, Ljubljana, Slovenia, chair
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