

BOS/SOR2026: Systems and Operational Research 2026 Conference

Palais Staszic, Nowy Świat 72, 00-330 Warsaw

Organised by the Polish Operational and Systems Research Society, in cooperation with the Systems Research Institute of the Polish Academy of Sciences and WIT Academy in Warsaw

16 October 2026 - Friday
9:15 CEST*: opening of the Conference; Stanisław Staszic Room**
<i>Introductory Address</i> by Janusz Kacprzyk , President, Polish Operational and Systems Research Society
9:30 CET: <u>Plenary lecture</u> : Yury Nikulin , Ville Rinne & Marko M. Mäkelä: <i>A multiobjective proximal bundle method for nonsmooth invex fuzzy optimization</i> ; <i>Chair</i> : Janusz Kacprzyk
10:15-10:45 CEST Coffee break
10:45-12:45 Parallel technical sessions
Session I: Multiple criteria decision making and optimisation ; <i>Chair</i> : Lech Kruś; <u>Stanisław Staszic Room</u> Jingyi Wang , Salvatore Greco & Roman Słowiński: <i>Interactive multiobjective optimization driven by decision rules in objective and decision spaces</i> Janusz Granat : <i>AI-driven representation of Pareto fronts for continuous multi-objective optimization problems</i> Krzysztof S. Targiel , Dariusz Meiser & Maciej Nowak : <i>Dynamic project portfolio management using multi-criteria decision-making methods – a model for periodic revision under uncertainty</i>
Session II.1: Systems Analysis and Applications 1 ; <i>Chair</i> : Krzysztof Szkatuła; <u>Hugo Kołtataj Room</u> Massimo de Falco, Marco Vitolo & Nicola Mastrandrea : <i>A graph-based framework for analysing bias in effort estimation under conditions of uncertainty</i> Łukasz Sosnowski : <i>From at-home menstrual self-tracking to server-side analytics and decision support: the end-to-end architecture of Ovufriend 2.0</i> Artur Mazurkiewicz : <i>Cognitive future of the local government digital twins</i>
12:45-13:30 CEST Lunch break
13:30-14:50 CEST: <u>Plenary lectures</u> ; <i>Chair</i> : Andrzej Kałuszko; <u>Stanisław Staszic Room</u> Agnieszka Prusińska, Krzysztof Szkatuła & Alexey Tret'yakov: <i>A new approach to classical results in optimization theory</i> Jan W. Owsinski & Jarosław Stańczak: <i>Cluster-wise modeling: searching for sense and utility in a hard case</i>
14:50-15:10 CEST Coffee break
Parallel technical sessions, 15:10-16:40 CEST
Session III: Vehicle routing and navigation <i>Chair</i> : Krzysztof S. Targiel; <u>Stanisław Staszic Room</u> Piotr Wierciński & Mariusz Kaleta : <i>Evolving graph neural network architectures with Cartesian genetic programming for the capacitated vehicle routing problem</i> Wojciech Burzyński : <i>Evolutionary algorithm for solving a rover routing problem</i> Karol Orzechowski & Piotr Palka : <i>Comparative evaluation of navigation meshes for Martian rover operations</i>
Session II.2. Systems Analysis and Applications 2 ; <i>Chair</i> : Łukasz Sosnowski <u>Hugo Kołtataj Room</u> Mikołaj Roszczyk & Daniel Paczesny: <i>Simulation-based evaluation of information fusion methods</i> Jacek Malinowski : <i>Cause and effect safety analysis of industrial systems modelled with Bayesian networks</i> Izabela Żółtowska & Cyprian Szczepański: <i>Novel auction model for flexible mid-term cloud computing procurement</i>
16:40-17:00 CEST Coffee break
Parallel technical sessions, 17:00-18:30 CEST
Session IV: Algorithms, optimality, applications ; <i>Chair</i> : Jan W. Owsinski; (<i>virtual session</i>) <u>Stanisław Staszic Room</u> Francesca Guerriero and Paolo Francesco Saccomanno: <i>Multi-agent deep reinforcement learning for dynamic depot returns in close-enough multi-vehicle routing</i> (<i>virtual presentation</i>) Pablo Bernal , Saeed Rahimpour & Andrzej Krasławski: <i>Multi-chemistry network design in battery recycling</i> (<i>virtual presentation</i>) Liviu-Ioan Zeek & Cristian Eugen Ciurea: <i>Budget-constrained test selection for RAG agents</i> (<i>virtual presentation</i>)
Session V: Structures and perspectives ; <i>Chair</i> : Jacek Malinowski; <u>Hugo Kołtataj Room</u> Leila Saeidiasl & Jakub Możaryn: <i>Post-identification Lyapunov certification of sparse quadratic models</i> Barbara Mazbicz-Kulma , Jan W. Owsinski, Jarosław Stańczak , Aleksy Barski & Krzysztof Sęp: <i>Properties of the hub&spoke graph structures</i>
18:30 CEST: Closing of the Conference
19:30 CEST: Dinner at “Bazyliśzek” Restaurant, Old City Market Square, VIP Room

* CEST: Central European (Summer) Time

** Stanisław Staszic and Hugo Kołtataj Rooms at first floor of Palais Staszic, to the left from the staircase and from the lift

In **bold** fonts: speakers