



21st
International
Conference on
Operational
Research

September 23-25, 2026,
Brela Croatia

CALL FOR PAPERS FOR SPECIAL SESSION

Graph theory and its applications

CHAIRS

- Darja Rupnik Poklukar, University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia: darja.rupnik-poklukar@fs.uni-lj.si
 - Janez Žerovnik, University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia, Rudolfovo - Science and Technology Centre Novo Mesto, Novo mesto, Slovenia: janez.zerovnik@fs.uni-lj.si
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Graph theory is one of the fundamental areas of discrete mathematics and provides a powerful framework for modeling, analyzing, and solving a wide range of theoretical and practical problems. On the theoretical side, graph theory offers a rich collection of structural problems and invariants, while on the applied side it serves as a natural language for describing complex systems and networks.

Many classical and modern problems in graph theory, such as domination and covering problems, distance-based concepts, centrality measures, graph products, and routing and path problems are closely related to applications in optimization, engineering, computer science, and network analysis. Graph based models are widely used in scheduling, resource allocation, logistics, communication networks, biological and social networks, and decision support systems.

Recent developments show that even well-studied graph theoretic problems continue to find new interpretations and applications in contemporary contexts. Conversely, application driven questions often lead to new theoretical challenges, refined notions, and open problems in graph theory and discrete optimization.

The aim of this special session is to present recent advances in graph theory with an emphasis on applications, as well as theoretical contributions that demonstrate clear potential for future applications. Both original theoretical results and applied studies based on graph theoretic methods are welcome.

IMPORTANT NOTES

DEADLINES	June 14, 2026 - submission of abstract July 1, 2026 - notification of acceptance August 25, 2026 - registration & fee payment
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When submitting the paper, please, select: [Graph theory and its applications](#)

We look forward to welcoming you from September 23-25, 2026 at Bluesun
Hotel Soline in Brela, Croatia.

You can find detailed information at: hdoi.hr/koi-2026/

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