



The 18th International Symposium on Operations Research in Slovenia - SOR'25

Bled, Slovenia, September 24-26, 2025

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

Call for Papers for Special Session

ADVANCES IN DISCRETE APPLIED MATHEMATICS AND GRAPH THEORY

at the 18th International Symposium on Operations Research in Slovenia (SOR '25)
which will be held in Bled, Slovenia, September 22 – 24, 2025.

Organized and chaired by: Assist. Prof. Dr. Darja Rupnik Poklucar and Prof. DDr. Janez Žerovnik

We invite submissions for the special session Advances in Discrete Applied Mathematics and Graph Theory, to be held as part of the 18th International Symposium on Operations Research. This session aims to highlight recent developments in discrete mathematics—especially graph theory—and their connections to operations research, optimization, and real-world applications.

Graph theory and discrete mathematics have long been integral to the modelling and analysis of complex systems, with growing impact across engineering, computer science, logistics, network design, and data analysis. The goal of this session is to bring together researchers working on theoretical advances, algorithm development, and applied methodologies that bridge discrete mathematics and operational practice.

Topics of interest include, but are not limited to:

- Graph theory and its applications in operations research
- Discrete optimization and combinatorial algorithms
- Algorithmic graph theory and complexity
- Mathematical modelling using discrete structures
- Applications of graph algorithms in industry and engineering
- Network design, analysis, and optimization
- Scheduling, routing, and resource allocation problems
- Interdisciplinary applications of discrete mathematics

DEADLINES:

- Submission of contributed papers: June 1, 2025
- Referee's reports: July 1, 2025
- Submission of revised papers and copies of bank transfer: August 25, 2025

Note: When submitting the paper, please select "Special Session – Advances in Discrete Applied Mathematics and Graph Theory".