Special Issue

Operations Research and Optimization: Mathematical Methods and Applications

Message from the Guest Editors

Operations research is an applied science focused on formulating and solving quantitative decision problems in a wide variety of areas. This Special Issue aims to serve as a platform to disseminate recent research in this field, both theoretical and applied, in the most distinct operations research application areas. Submissions including new theoretical results, models and algorithms, and new applications are welcome. Potential topics include but are not limited to:

- Integer linear programming and combinatorial optimization problems;
- Exact integer and combinatorial solving methods and techniques: branch-and-bound, brunch-and-cut, decomposition-based methods, reformulations, linearizations;
- Approximated solving methods: heuristics, meta-heuristics, metaheuristics, and model-based metaheuristics for integer and combinatorial optimization problems; hybridized approaches;
- Real-world OR applications in industry and services: operations management, supply chain management, logistics and transportation, production planning, scheduling, energy, telecommunications, location, and healthcare.

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Deadline for manuscript submissions

closed (31 March 2025)

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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