

Special Issue

Mathematical Modeling and Intelligent Algorithms in Operations Research

Message from the Guest Editors

We are pleased to invite you to submit a manuscript to this Special Issue of *Mathematics*, which is dedicated to novel mathematical programming models, intelligent algorithms, and their application in complex Operations Research (OR) problems. This Special Issue aims to compile innovative research that leverages advanced mathematical techniques and intelligent algorithms to address real-world challenges across diverse industries and sectors. Submissions should focus on methodologies such as exact optimization methods, metaheuristics, reinforcement learning, matheuristics, simheuristics (simulation-optimization), and learnheuristics (integration of heuristics with machine learning techniques), among others. We particularly welcome articles that present original methodological contributions, alongside practical OR applications grounded in real-world case studies. This Special Issue aims to highlight research that not only promotes innovation in mathematical modelling and the design of intelligent algorithms, but also exhibits a significant practical impact regarding the solution of challenging and high-stakes problems in operations research.

Guest Editors

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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).