

# Special Issue

## Decision Making and Optimization Under Uncertainty

### Message from the Guest Editor

In an increasingly complex and dynamic world, decision-making and optimization under uncertainty have become critical areas of research across various disciplines, including operations research, management science, engineering, economics, and artificial intelligence. Uncertainty arises from incomplete information, unpredictable environments, and stochastic processes, posing significant challenges to traditional decision-making frameworks. This Special Issue aims to explore innovative methodologies, models, and applications that address these challenges, providing robust and adaptive solutions for real-world problems. This Issue will feature cutting-edge research on topics such as stochastic optimization, robust decision-making, risk analysis, scenario planning, and machine learning techniques for uncertainty quantification. Contributions may also cover applications in supply chain management, financial planning, healthcare, energy systems, and climate change mitigation, among others. By bridging theory and practice, this Special Issue seeks to advance our understanding of how to make informed, resilient decisions in the face of uncertainty.

### Guest Editor

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### Deadline for manuscript submissions

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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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### Editor-in-Chief

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indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

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JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).