

Special Issue

Mathematical Methods for Decision Making and Optimization

Message from the Guest Editor

Numerous real-world problems in science, engineering, industry, economics, and business are solved using sets of mathematical concepts and techniques called optimization and decision making. The quantitative measurement of quality has become the most effective foundation for developing and enhancing policies over the last few years. The goal of this Special Issue is to collect the most recent developments in mathematical decision-making and optimization techniques for a variety of engineering, science, and management applications. Both original research pieces and review papers are welcome to be submitted to this Special Issue. Topics include, but are not limited to:

- Application of AI, ML, fuzzy and other techniques;
- Data mining and statistical learning;
- Decision support systems;
- Design optimization;
- Evolutionary algorithm;
- Fuzzy computing;
- High-performance computing;
- Intelligent computing;
- Mathematical modeling;
- Machine learning applications;
- Multi-objective programming;
- Multi-criteria decision making;
- Metaheuristic algorithms predictive modeling and analytics;
- Rough set theory;
- Neural networks.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2024)



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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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Prof. Dr. Francisco Chiclana

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Rapid Publication:

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).