Special Issue

Evolutionary Algorithms and Mathematical Optimization with Applications

Message from the Guest Editors

We welcome full papers that discuss recent advances in the development and application of evolutionary algorithms and mathematical optimization approaches. Specific optimization models and solution tools, including evolutionary multi-criterion optimization either based on mathematical techniques or on evolutionary algorithms, devoted to the treatment of scientific, engineering, and management applications are also of great interest. Topics of interest include, but are not limited to, the following:

- Novel mathematical programming models;
- New evolutionary operators;
- Hybrid algorithms and metaheuristics;
- Continuous and combinatorial optimization;
- Multi-objective and many-objective optimization;
- Interactive multi-objective optimization;
- Dynamic multi-objective optimization;
- Multiple-criteria decision making:
- Multiple-criteria choice, ranking, and sorting;
- Evolutionary many-objective optimization;
- Pareto optimal knee front search:
- Preference modelina:
- Multiple attribute utility theory;
- Outranking methods;
- Goal programming;
- Data-driven and model-based multi-objective optimization;
- Applications in government, business, industry and interdisciplinary sciences.

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 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).

