

Special Issue

Application of Mathematical Methods in Multi-Objective Optimization and Evolutionary Algorithms

Message from the Guest Editor

You are cordially invited to contribute to this Special Issue of *Mathematics*, focused on the application of mathematical methods in multi-objective optimization and evolutionary algorithms. In today's complex landscape, decision making often requires a multi-dimensional approach that considers multiple criteria and objectives to achieve the best possible outcomes. Multi-objective optimization is, therefore, a highly relevant area of study, with applications in energy efficiency, supply chain design, data mining, telecommunications, and more. Due to the complexity of multi-objective optimization problems, finding optimal solutions using exact methods can be computationally expensive and inefficient. As a result, heuristic and metaheuristic approaches have been developed, including evolutionary algorithms—techniques inspired by natural selection and competition for resources. This Special Issue welcomes original research articles on both theoretical and applied aspects of multi-objective optimization and evolutionary algorithms across various sectors.

Guest Editor

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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).