

Special Issue

Evolutionary Multi-Criteria Optimization: Methods and Applications

Message from the Guest Editors

The main aim of this Special Issue is to bring together both experts and newcomers to discuss new and existing issues in these areas, and in particular to continue the integration and blending of ideas between EMO and MCDM researchers, and to stimulate engagement with the user community. You are invited to submit papers that are unpublished original work for this Special Issue. The topics include, but are not limited to:

- Interactive multi-objective optimization.
- Pareto optimal knee front search.
- Hybrid EMO-MCDM methodologies.
- Theoretical aspects of EMO and MCDM methodologies.
- Multiple-criteria decision aiding.
- Preference modeling.
- Multiple-criteria choice, ranking, and sorting.
- Multiple-objective continuous and combinatorial optimization.
- Evolutionary many-objective optimization.
- Multiple attribute utility theory.
- Outranking methods.
- Goal programming.
- Multiple-objective metaheuristics.
- Fuzzy multiple-criteria decision making.
- Data-driven and model-based multi-objective optimization.
- Dynamic multi-objective optimization.
- Applications of EMO and MCDM in government, business, industry and interdisciplinary sciences.

Guest Editors

Dr. Rui Wang

College of System Engineering, National University of Defense Technology, Changsha 410073, China

Dr. Shi Cheng

School of Computer Science, Shaanxi Normal University, Xi'an 710119, China

Deadline for manuscript submissions

20 July 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/115803

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

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

Journal Rank:

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

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).