

# Special Issue

## Application of Mathematical Programming and Algorithms in Operational Research

### Message from the Guest Editor

Nowadays, Operations research (OR) is known as a powerful modelling and optimisation tool to deal with global challenges such as the impact of climate change on human beings, infrastructure systems, and transport decarbonisation, among others. This Special Issue would thus contribute to the field of novel development of mathematical programming, metaheuristic algorithms and math-heuristic algorithms in OR. It aims to present original research articles and the most relevant advances in this research area that provide new insights into OR modelling techniques and algorithms for solving global challenge issues. **Keywords** linear programming; integer programming; mixed-integer linear programming; exact methods; nature-inspired algorithms; metaheuristic algorithms; math-heuristic algorithms

### Guest Editor

Dr. Trung Hieu Tran

College of Business and Social Sciences, Aston Business School, Aston University, Birmingham B4 7ET, UK

### Deadline for manuscript submissions

30 March 2026



## Mathematics

an Open Access Journal  
by MDPI

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/252186](https://mdpi.com/si/252186)

*Mathematics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto: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).