

# Special Issue

## Intelligence Optimization Algorithms and Applications

### Message from the Guest Editors

The new generation of artificial intelligence is driving the rapid development of industry, with advanced software and algorithms gradually integrating into various aspects of life. Large-scale and ultra-large-scale systems have emerged, with increasingly fine configurations and complex processes, which urgently require optimization. However, precise optimization methods are difficult to handle, forcing the research of more effective, reasonable, and feasible heuristic methods and swarm intelligence optimization methods, which attract significant attention and have been a useful tool for solving mathematic theory and real-world problems. Intelligence optimization algorithms can ignore the problems' characters and obtain feasible solutions quickly. Therefore, they are widely used in mechanism optimization design, mechanism motion trajectory planning, workshop layout optimization, optimization related to machining process technology planning, and so on.

### Guest Editors

Dr. Haibin Ouyang

School of Mechanical and Electric Engineering, Guangzhou University, Guangzhou 510006, China

Dr. Kunjie Yu

School of Electrical and Information Engineering, Zhengzhou University, Zhengzhou 450001, China

### Deadline for manuscript submissions

20 May 2026



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/194414](https://mdpi.com/si/194414)

*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).