

# Special Issue

## Optimization in Scheduling and Control Problems

### Message from the Guest Editors

Numerous optimization problems in practice are multi-objective optimization problems, containing two or more objective functions that need to be optimized simultaneously. For example, in the field of production scheduling, we need to consider both the production efficiency and cost, and even energy consumption. Additionally, to efficiently control the machining process parameters, we have to consider the machining accuracy, machining efficiency, and the impact on the performance of machine tools and cutting tools at the same time. In recent years, multi-objective optimization methods, such as multi-objective evolutionary algorithms, have been widely used in production scheduling and optimal control. In this Special Issue, original papers and review papers are welcome. Research areas include but are not limited to the following:

- Novel multi-objective optimization algorithms, such as learning-based multi-objective optimization algorithms;
- Multi-objective optimization algorithms for scheduling applications;
- Multi-objective optimization algorithms for control applications;
- Multi-objective optimization algorithms in other related fields.

---

### Guest Editors

Dr. Fajun Yang

School of Management, Shanghai University, Shanghai 200444, China

Dr. Chunjiang Zhang

School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

---

### Deadline for manuscript submissions

closed (31 December 2023)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[mdpi.com/si/148056](https://mdpi.com/si/148056)

*Mathematics*

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 2.3  
CiteScore 4.0



[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 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).