

# Special Issue

## Swarm and Evolutionary Computation—Bridging Theory and Practice

### Message from the Guest Editors

Swarm and evolutionary computation (SEC) is a broad and growing area of modern Computer Sciences, dealing with nature-inspired systems that are capable of displaying intelligent behaviour, thus optimising a vast range of challenging real-world scenarios that cannot be addressed via the direct application of purely theoretical exact approaches. **Topics of interest** We welcome articles where theoretical or AI methods are used in conjunction with SEC methods to address the relevant topic of interests, as suggested below:

- Theoretical or geometric aspects of search space and fitness landscape;
- Computational intelligence and SEC -based optimisation;
- Evolutionary machine learning;
- Neuroevolution;
- Surrogate modelling;
- Operations research and SEC systems;
- Forecasting and data mining with SEC algorithms;
- Real-world applications (including scheduling problems, financial engineering, etc.).

### Guest Editors

Prof. Dr. Yong-Hyuk Kim

School of Software, Kwangwoon University, 20 Kwangwoon-ro, Nowon-gu, Seoul 01897, Korea

Dr. Fabio Caraffini

Department of Computer Science, Computational Foundry, Swansea University, Bay Campus, Fabian Way, Skewen SA1 8EN, UK

### Deadline for manuscript submissions

closed (20 July 2022)



## Mathematics

an Open Access Journal  
by MDPI

Impact Factor 2.3  
CiteScore 4.6



[mdpi.com/si/72295](https://mdpi.com/si/72295)

*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 2.3**  
**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 18.3 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).