

# Special Issue

## Evolutionary Algorithms in Artificial Intelligence

### Message from the Guest Editor

Evolutionary algorithms, inspired by natural selection, have become powerful tools for solving complex optimization, learning, and decision-making problems across artificial intelligence. These algorithms—including genetic algorithms, differential evolution, evolutionary strategies, and swarm intelligence—provide flexible frameworks for navigating high-dimensional, nonlinear, and multimodal search spaces. With advances in machine learning, deep learning, and reinforcement learning, evolutionary approaches are increasingly integrated to enhance model performance, automate architecture design, optimize hyperparameters, and improve robustness in dynamic environments.

This Special Issue invites high-quality contributions on theoretical advances, algorithmic innovations, hybrid frameworks, and real-world applications of evolutionary algorithms in AI. Topics include novel evolutionary methods, multi-objective optimization, integration with reinforcement learning, explainability, fairness, and domain-specific applications in fields such as engineering, robotics, healthcare, finance, and agriculture. Original research, reviews, and case studies offering valuable insights are welcome.

---

### Guest Editor

Dr. Mir Md Jahangir Kabir

Data Science and Innovation, TD School, University of Technology  
Sydney, Sydney, NSW, Australia

---

### Deadline for manuscript submissions

30 September 2026



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/263557](https://mdpi.com/si/263557)

*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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).