

# Special Issue

## Symmetry in Intelligent Algorithms

### Message from the Guest Editors

Intelligent Algorithms, which range from machine learning to evolutionary computation, are pivotal in modern computing. However, challenges persist in understanding their intricacies, ensuring fairness, and maximizing efficiency. From swarm intelligence to evolutionary computation and machine learning, symmetry can be leveraged to optimize algorithmic behavior, streamline computational processes, and enhance the quality of solutions. Understanding and harnessing symmetry can lead to more robust, scalable, and interpretable algorithms. This Special Issue aims to explore the integration of symmetry into the design and application of intelligent algorithms. By providing a platform for sharing insights and fostering collaboration, this Special Issue seeks to advance the understanding and application of symmetry in intelligent algorithms, addressing current challenges and setting the stage for future developments.

### Guest Editors

Dr. Hongwei Kang

1. School of Software, Yunnan University, Kunming 650500, China
2. Yunnan key laboratory of software engineering, Yunnan University, Kunming 650504, China

Dr. Xinping Sun

School of Software, Yunnan University, Kunming 650500, China

### Deadline for manuscript submissions

31 August 2025



# Symmetry

an Open Access Journal  
by MDPI

Impact Factor 2.2  
CiteScore 5.3



[mdpi.com/si/205784](https://mdpi.com/si/205784)

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

[mdpi.com/journal/  
symmetry](https://mdpi.com/journal/symmetry)





# Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.3



[mdpi.com/journal/  
symmetry](https://mdpi.com/journal/symmetry)



## About the Journal

### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

---

### Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)