

Special Issue

Algorithms for Optimization 2022

Message from the Guest Editors

In the real world, symmetry and asymmetry are present in various problems. Some of them can be formulated as different types of optimization problems. Optimization methods are one of the key techniques in the field of artificial intelligence. In recent years, many new optimization techniques have emerged and developed, which have greatly promoted the development of artificial intelligence. Evolutionary computation, as a bionic optimization technique inspired by the co-evolution of individuals in biological populations, achieves the solution of complex problems by simulating the working patterns of biological individuals. Compared with traditional optimization methods, it has the advantages of not relying on the exact mathematical model of the problem to be solved, robustness, easy parallelism, etc. It has become a popular and promising research direction for solving complex optimization problems such as nonconvex optimization and combinatorial optimization in the field of artificial intelligence, and has important applications in many fields, such as intelligent manufacturing and smart logistics, and smart grids.

Guest Editors

Prof. Dr. Wenyin Gong

School of Computer Science, China University of Geosciences, Wuhan 430074, China

Dr. Libao Deng

School of Information and Electrical Engineering, Harbin Institute of Technology at Weihai, Weihai 264209, China

Deadline for manuscript submissions

closed (31 December 2022)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.4



mdpi.com/si/106550

Symmetry

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.4



[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)