

Special Issue

Advances in Symmetry/Asymmetry and Biomedical Engineering

Message from the Guest Editors

This Special Issue focuses on the forefront advances in symmetry and asymmetry in the field of biomedical engineering, covering the latest research achievements and technological breakthroughs in various directions, including brain science, vascular disease assessment and diagnosis, cognitive neuroscience, motion and rehabilitation, and more. The aim is to deepen our understanding and application of these concepts in biomedical engineering. This Special Issue pays particular attention to the application and potential of symmetry and asymmetry research in vascular diseases and neurological dysfunction evaluation, diagnosis, and therapeutic interventions, especially regarding stroke or arteriosclerosis biomarkers, brain functional network connectivity, and multi-brain neural synchronization. For this Special Issue, we invite authors with relevant manuscripts to submit high-quality research papers and systematic reviews to collectively explore and promote innovative research and practical applications of symmetry and asymmetry in biomedical engineering. We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Yingwei Li

School of Information Science and Engineering, Yanshan University,
Qinhuangdao 066004, China

Prof. Dr. Xiaoli Li

State Key Laboratory of Cognitive Neuroscience and Learning, Beijing
Normal University, Beijing 100875, China

Deadline for manuscript submissions

closed (31 March 2026)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/220570

Symmetry
Editorial Office
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 5.3



[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
ICREA, 08010 Barcelona and 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)