

Special Issue

Symmetry and Asymmetry in Human–Computer Interaction for Medical Applications

Message from the Guest Editors

We extend an invitation for submissions to a forthcoming Special Issue of *Symmetry* titled "Symmetry and Asymmetry in Human–Computer Interaction for Medical Applications." This Special Issue will focus on the critical role of human–computer interactions (HCI) in the design and implementation of medical technologies, encompassing areas such as diagnostic interfaces, surgical robotics, rehabilitation devices, and assistive systems. In medical environments, which are inherently high-stakes, the principles of symmetry and asymmetry significantly influence perception, cognition, and overall usability. This Special Issue aims to explore the profound impact of symmetry and asymmetry on HCI design, testing, and application within diverse medical fields. Given the rapid advancements in technologies like brain–computer interfaces, robotic surgery, telemedicine, and personalized rehabilitation, medical practices are undergoing substantial transformation. Consequently, a comprehensive understanding of how symmetry and its disruption affect design and performance is paramount, as these factors directly impact information processing, accessibility, usability, and patient safety.

Guest Editors

Dr. Yunyong Punsawad
Dr. Bukhoree Sahoh
Dr. Charlee Kaewrat

Deadline for manuscript submissions

31 July 2026



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.2



mdpi.com/si/247431

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 5.2



[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)