

## 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, tele-medicine, 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 January 2026



## Symmetry

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## 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.

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### Editor-in-Chief

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