

Special Issue

Symmetric and Asymmetric Research in Human–Computer Interaction

Message from the Guest Editors

In recent decades, human–computer interaction (HCI) has evolved into an interdisciplinary field that integrates computer science, cognitive sciences, design, and artificial intelligence. In this context, the concepts of symmetry and asymmetry offer new perspectives for analyzing the relationships between humans and digital systems. Symmetry in HCI can be understood as the balance and reciprocity in communication, perception, and control processes between users and interactive technologies. On the other hand, asymmetry emerges in scenarios where differences exist in autonomy, information distribution, or decision-making power, especially in systems driven by artificial intelligence or machine learning. This Special Issue aims to explore the influence of symmetric and asymmetric principles in interface design, user experience, human cognition, and technological ethics. Researchers are invited to submit theoretical, experimental, and applied studies that address how symmetry and asymmetry can contribute to creating more equitable, adaptive, and effective interactions between humans and computational systems.

Guest Editors

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Deadline for manuscript submissions

15 September 2026



Symmetry

an Open Access Journal
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Impact Factor 2.2
CiteScore 5.3



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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.

Editor-in-Chief

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