Special Issue

Asymmetry and Symmetry in Computer Vision and Pattern Recognition

Message from the Guest Editor

The Special Issue aims to explore the intricate interplay between symmetrical and asymmetrical patterns within visual data processing. Symmetry has long been a fundamental concept in human perception and machine learning, influencing various applications such as object recognition, scene understanding, and image segmentation. Conversely, asymmetry often conveys critical information about objects and their environments, making it equally significant in computer vision tasks. This Special Issue invites contributions that address theoretical advancements, algorithmic innovations, and practical applications relating to symmetry and asymmetry in visual data. Topics may include but are not limited to symmetry detection algorithms, the role of asymmetry in deep learning models, and the implications of these concepts in real-world applications like medical imaging, autonomous systems, and augmented reality. By uniting researchers from diverse backgrounds, this Special Issue aims to foster a deeper understanding of how symmetrical and asymmetrical patterns can enhance the capabilities of computer vision and pattern recognition systems.

Guest Editor

Dr. Zaidao Wen
School of Automation, Northwestern Polytechnical University, Xi'an, China

Deadline for manuscript submissions

31 March 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/249210

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

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)

MDPI