

Special Issue

Symmetry and Asymmetry Operators in Computer Vision

Message from the Guest Editor

Computer vision has emerged as a vibrant and rapidly evolving field over the recent decade, with operators playing a pivotal role in its development. Symmetry and asymmetry operators, in particular, have unfurled a wealth of possibilities and challenges, fueling remarkable progress in diverse applications. The inherent symmetry in natural scenes and objects has long been harnessed to simplify complex visual tasks, allowing for more efficient algorithms and models. Symmetry operators can distill essential features, reducing computational loads and enhancing the robustness of computer vision systems. For instance, in facial recognition, symmetry-based descriptors help in precisely identifying key facial landmarks, even under varying poses and lighting conditions. Conversely, asymmetry operators have carved out their field, proving invaluable in scenarios where irregularities and differences carry crucial information. In medical imaging, detecting minute asymmetrical changes in anatomical structures can be the early warning sign of diseases, making asymmetry operators indispensable for accurate diagnosis...

Guest Editor

Dr. Ming Liu

School of Mechatronical Engineering, Beijing Institute of Technology, Beijing, China

Deadline for manuscript submissions

31 December 2025



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/225455

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

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)