Special Issue

Asymmetric and Symmetric in Deep Computer Vision and Generative Modeling

Message from the Guest Editors

In recent years, deep learning has transformed the fields of computer vision and generative modeling, enabling remarkable advancements across a wide range of applications, from image recognition and natural scene interpretation to the generation of realistic synthetic data. Symmetric techniques often support generalization and model stability, while asymmetric approaches provide flexible solutions to complex challenges, such as data variability and the handling of noise and anomalies.

We invite contributions to enhance model generalization, efficiency, and interpretability, spanning fundamental theory to practical applications. This collection of articles aims to provide a comprehensive understanding of the impact of these approaches, fostering further development in these rapidly evolving fields.

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Deadline for manuscript submissions

31 March 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/221382

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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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