

Special Issue

Symmetry/Asymmetry in Computer Vision and Artificial Intelligence

Message from the Guest Editors

Symmetry and asymmetry are fundamental concepts in computer vision and artificial intelligence (AI) that play an essential role in the analysis and interpretation of complex data. The principles of symmetry have been instrumental in advancing areas such as image recognition, 3D object reconstruction, and neural network architectures, where symmetrical structures can lead to more efficient computation and improved accuracy. However, real-world data often present asymmetrical challenges, from uneven data distributions to irregular object shapes, requiring sophisticated AI approaches to handle these complexities.

Recent advancements in AI and computer vision are pushing the boundaries of what can be achieved in various domains, including robotics, medical imaging, autonomous navigation, and even education. This Special Issue invites contributions that explore the use of symmetry and asymmetry in AI models, algorithms, and applications, encouraging the integration of these concepts to address key challenges in the field. Researchers from computer vision, AI, robotics, and related fields are encouraged to submit their findings.

Guest Editors

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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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