

Special Issue

Symmetry/Asymmetry in Image Processing and Computer Vision

Message from the Guest Editors

- This Special Issue focuses on the exploration of symmetry/asymmetry in image processing and computer vision, aiming to advance the understanding of these fundamental principles and their applications in modern visual technologies. Symmetry and asymmetry play crucial roles in a wide range of computer vision tasks, including object recognition, image segmentation, feature extraction, and 3D reconstruction. By investigating the impact of symmetry and asymmetry on algorithm design and performance, contributors can offer insights into how these principles can be harnessed to enhance image quality, improve computational efficiency, and achieve robust results in complex visual environments.
- We invite contributions that delve into the theoretical and practical aspects of symmetry and asymmetry in image processing and computer vision, as well as innovative methods for leveraging these principles. Topics may include, but are not limited to, symmetry-based feature extraction, deep learning architectures, asymmetry handling in face and object recognition, applications of symmetry and asymmetry in medical imaging, and challenges in processing asymmetric or imperfectly symmetric data.

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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