

Special Issue

Studies of Image Processing with Symmetry/Asymmetry

Message from the Guest Editor

Symmetry and asymmetry play fundamental roles in image processing, computer vision, and pattern recognition. Symmetry analysis is widely used for object detection, image segmentation, shape representation, medical diagnosis, biometric systems, industrial inspection, and multimedia security. Conversely, asymmetry analysis has become increasingly important in applications where irregularities, anomalies, or structural differences carry significant diagnostic or semantic information, such as medical imaging, defect detection, facial analysis, and intelligent surveillance systems. Recent advances in artificial intelligence, deep learning, optimization algorithms, and embedded systems have significantly accelerated research in this field. Modern image processing techniques now exploit both symmetric and asymmetric properties to improve robustness, accuracy, interpretability, and computational efficiency across a wide range of real-world applications...

Guest Editor

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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.

Editor-in-Chief

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