

Special Issue

Symmetry-Aware Methods in Image Processing and Computer Vision

Message from the Guest Editors

Recent advances in image processing and computer vision, driven by improved image acquisition and intelligent devices, have enabled wide real-world applications and rapid progress in symmetry-aware techniques. By exploiting geometric symmetry and invariance, modern methods achieve improved efficiency, robustness, and accuracy in visual analysis. This Special Issue focuses on recent developments in symmetry-aware and lightweight methods for fast image processing and computer vision. We welcome original research contributions on topics including, but not limited to, the following:

- Symmetry-aware and lightweight deep neural networks.
- Fast image restoration, including denoising, super-resolution, and deblurring.
- Efficient object detection and image segmentation.
- Fast and symmetry-aware image style transfer.
- Secure and privacy-preserving image processing using cryptography.
- Homomorphic encryption and secure deep learning for images.
- Image authentication, watermarking, and tamper detection for security.
- Real-time secure image and video processing on resource-constrained devices.

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.

Editor-in-Chief

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