Special Issue

Symmetry in Advancing Digital Signal and Image Processing

Message from the Guest Editors

- Digital signal and image processing are fundamental to various fields, including healthcare, communications, and autonomous systems. A key, but often overlooked, element in this domain is symmetry, which appears in mathematical, structural, and functional forms. Symmetry enhances computational efficiency, feature extraction, and accuracy in tasks such as image segmentation, object detection, and signal reconstruction. It is integral to techniques such as Fourier and wavelet transforms, optimization algorithms, and deep learning architectures.
- This Special Issue explores the theory and practice of digital signal and image processing, focusing on the role of symmetry. Topics of interest include signal acquisition, transformation, inverse problems, filtering, denoising, image reconstruction, segmentation, machine learning applications, real-time processing, and compression. Contributions are welcome from emerging areas such as biomedical imaging, remote sensing, and autonomous systems, highlighting innovations that leverage symmetry for stability, scalability, and advanced solutions.
- We look forward to your valuable contributions.

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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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