

Special Issue

Symmetry in Signal Processing

Message from the Guest Editor

The Special Issue “*Symmetry in Signal Processing*” aims to explore the role of symmetry in modern signal analysis, representation, and interpretation. Symmetry concepts, whether spatial, temporal, spectral, or statistical, are increasingly utilized to enhance signal processing techniques across diverse applications, including biomedical imaging, audio compression, pattern recognition, communications, and artificial intelligence. This Special Issue welcomes contributions addressing both theoretical and practical aspects of symmetry in signal processing—ranging from mathematical models and transform-based approaches to machine learning frameworks that leverage symmetric properties in data structures. Of particular interest are studies involving wavelet and Fourier analysis, ICA/PCA, deep neural networks, and applications to ECG/EEG analysis, image denoising, and time-series forecasting. Contributions discussing symmetry breaking, invariant feature extraction, and symmetry-aware optimization techniques are also highly encouraged.

Guest Editor

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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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