

Special Issue

Symmetry and Asymmetry Studies in Digital Signals Processing

Message from the Guest Editors

Signal processing is a critical field that has evolved significantly over the years, driven by advancements in technology and the increasing demand for processing large volumes of data in real time. However, the field faces several challenges that impact both research and practical applications. To meet these two requirements, the “symmetry” and “asymmetry” could be widely applied in signal processing, transforming, and matrix arrays in the future. Different from conventional schemes, “symmetry” and “asymmetry” in signal processing could lead to one or more dimension(s), which considerably enhances the computation efficiency under proper system configurations, especially in areas like machine learning, adaptive filtering, communications and image processing, often involving high-computational complexity.

Guest Editors

Prof. Dr. Jia Hou

Dr. Jun Li

Dr. Han Hai

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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