



symmetry



an Open Access Journal by MDPI

Asymmetry/Symmetry in Electrical Engineering

Guest Editor:

Dr. Zhen Liao

Department of Electronic
Information, Hangzhou Dianzi
University, Hangzhou, China

Deadline for manuscript
submissions:

30 June 2025

Message from the Guest Editor

The Special Issue on "Asymmetry/Symmetry in Electrical Engineering" explores the fundamental characteristics of symmetry and asymmetry in electrical engineering and their significant influence on the design, performance, and reliability of electrical components, circuits, antennas, and systems. Symmetry and asymmetry, which are deeply rooted in the laws of nature and the structure of the universe, are indispensable concepts in understanding the world around us.

This Special Issue covers a wide range of topics, including component asymmetry/symmetry, signal asymmetry/symmetry, antenna asymmetry/symmetry, and system asymmetry/symmetry. Component symmetry emphasizes the use of balanced and symmetric components to optimize circuit performance. Signal symmetry is crucial for reliable data transmission and noise rejection in various applications. System symmetry, exemplified by balanced three-phase power systems, offers efficient power distribution and enhanced fault tolerance.



mdpi.com/si/175367

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI