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Asymmetry/Symmetry in Electrical Engineering

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Deadline for manuscript
submissions:

closed (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



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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.

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