Special Issue

Symmetry/Asymmetry Studies in Modern Power Systems

Message from the Guest Editors

Symmetry and asymmetry concepts play a fundamental role in the design, operation, and stability of modern power systems. This Special Issue provides a platform for in-depth exploration of the relationship between symmetry and power systems, aiming to enhance our understanding of the impact of symmetry on system performance, reliability, and efficiency. This Special Issue will delve into various aspects of symmetry in power systems, including its application in fault diagnosis, system planning, and design. It will also highlight the role of symmetry in improving operational efficiency, enhancing system stability, and ensuring the reliable delivery of electricity. By exploring the intricate connections between symmetry and power systems, this Special Issue aims to foster a deeper understanding of the complexities involved and to provide valuable insights to improve power system design and operations. This Special Issue invites researchers to contribute original research articles and reviews that explore various aspects related to symmetry and asymmetry in modern power systems. Applied case studies are especially welcome.

Guest Editors

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Dr. Zhong Chen

Dr. Lei Chen

Dr. Tao Zhou

Deadline for manuscript submissions

closed (30 June 2025)

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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.

Editor-in-Chief

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