Special Issue

Symmetry in Power and Electronic Engineering

Message from the Guest Editor

The transition of traditional power systems to smart grids is an inevitability that is accompanied by many operational, technical, economic, and environmental issues. Contemporary research in the power system sector attempts to address many of these issues. Symmetry is a term that is connected with power system modeling and analysis. For instance, fault analysis is related to the modeling framework of symmetrical components. Another challenging task is the study of symmetric architectures of machine learning models and how novel and sophisticated architectures can be applied in power system problems. In the context of these scientific and engineering challenges, the main objective of this Special Issue is to publish new models and methodologies for addressing open issues in present power systems and future smart grids by employing the concept of symmetry in the formulation and implementation of the aforementioned models and methodologies. We welcome submissions of multidisciplinary research and cutting-edge approaches as well as state-of-the-art papers.

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.

Editor-in-Chief

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