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Symmetry with IoT in Electrical Engineering

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Message from the Guest Editors

Dear Colleagues,

Electrical and IoT-connected installations are part of future of electricity grids. This enables numerous operations to be performed within the power system. Electric power systems can be considered as symmetrical systems from energy supply to energy consumption, which must take into account the improvement of supply quality, reduction of carbon emissions, integration of renewable energy sources, increasing energy costs, etc.

In particular, the increase in distributed energy resources causes problems in distribution networks. To achieve a higher-quality and more stable power supply, electric power systems must address the problems of both symmetrical and asymmetrical power grids, where new technologies are incorporated, including sustainable energy generation systems, smart distribution grids, power system monitoring technologies, transmission systems, and DC distribution.....

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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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