



*symmetry*



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## Advanced Technologies in Electrical and Electronic Engineering III

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### Message from the Guest Editors

Dear Colleagues,

The electrical power system can be regarded as a comprehensive symmetrical system of power supply and power consumption, which is facing numerous unprecedented threats and challenges from urgent low-carbon requirement, uncertain renewable power integration, severe natural disasters, energy costs climb, and so forth. In particular, the increasing penetration of distributed energy resources along with converters strengthens the asymmetry problem of distribution network. To achieve an affordable, clean, safe, stable, and resilient power supply and to address asymmetrical problems, new technologies are presented, which include but are not limited to the integrated energy system (IES), smart distribution network (SDN), multilevel high power converter (MHPC), advanced power system protection technology (APSP), direct current transmission and distribution technology (DCTD), panoramic situation awareness (PSA), and high-voltage insulation technology (HVI). The planned issue of *Symmetry* seeks to show the great significance of expressing new ideas and conducting research...



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# 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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