Special Issue

Power Converters and Symmetry/Asymmetry

Message from the Guest Editors

Power converters play an essential role in power grids nowadays, with distribution grids and microgrids also playing critical roles in shaping the future of electric power grids. This Special Issue will delve into the significant advancements in electric power grids in recent years, driven by the integration of renewable energy sources and the growing need for reliable, efficient, and sustainable low-inertia power systems, highlighting the roles of power converters in enhancing the control and operation of these modern electric systems in symmetric and asymmetric conditions, which profoundly impact system performance, reliability, and stability. This Special Issue will also explore various aspects of symmetry/asymmetry involving power converters including research areas such as the impacts of asymmetric grid conditions on converter operation; novel control strategies for mitigating the asymmetry, design and analysis of asymmetric converter topologies; and symmetry breaking in multilevel converters...

Guest Editors

Dr. Edgar Lenymirko Moreno-Goytia

Dr. Vicente Venegas-Rebollar

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Deadline for manuscript submissions

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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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