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Power Electronic and Harmonic

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Message from the Guest Editor

In the last decade, we have seen a rising share of power-electronic (PE) devices connected to the grid. They are the results of the proliferation of renewable energy sources, controllable loads, FACTS devices, and HVDC links at transmission level and the electrification of transport and heating.

In order to adequately improve harmonic distortion levels due to PE devices, we firstly need accurate measurements of harmonics (at different voltage levels), then methodologies for the calculation of responsibilities for harmonic distortion and the assessment of harmonics propagation through networks and, at the end, solutions for harmonics mitigation, including advanced PE devices, designed to be part of the solution.

Any scientific work dealing with the aforementioned topics regarding the sources, propagation, and mitigation of harmonics due to PE devices are welcome in this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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