Special Issue

Power Quality in the Modeling of Machines and Electrical Devices

Message from the Guest Editors

With the increasing number of non-linear loads, renewable energy sources, and power electronic converters connected to the grid, new power quality challenges arise due to the injection of harmonics of the mentioned devices. Standard power network equipment such as electrical rotating machines and transformers are very sensitive to distorted waveforms, leading to malfunctioning and overheating. The mitigation of the harmonics and refining of power-quality-oriented modeling of standard power network equipment are a fundamental research line to achieve the zero net targets set by the Paris agreement. Power electronics loads and typical power quality problems such as unbalances and flicker can also have an impact on these elements, and thus, further research is required.

Guest Editors

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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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