Special Issue

Advances in Power Quality and Electrical Machines

Message from the Guest Editor

Respective elements of a power system, including generators and energy receivers, are exposed to power quality disturbances such as voltage deviation, unbalance and waveform distortion. Their occurrence results in various harmful phenomena. In electrical machines, power quality disturbances cause among the other things an increase in power losses, efficiency reduction, overheating, excessive vibration and torsional vibration. To compound this problem, the work of electrical machines may also generate power quality disturbances. For this Special Issue, we encourage the submission of original contributions and review papers regarding power-quality-related phenomena in asynchronous and synchronous machines. Potential topics may include, but are not limited to, power losses, heating, vibration and torsional vibration of electrical machines, the effect of the work of electrical machines on power quality, and the protection of electrical machines against malfunctions due to excessive power quality disturbances. Proposals of power quality standards modification are also welcome.

Guest Editor

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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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