Special Issue

Advanced Techniques for Power Quality Improvement

Message from the Guest Editor

Power quality has a major impact on global economic activities. Problems related to power quality are currently responsible for generating serious damages in terms of operating losses, compromised personal safety, additional production costs, etc. Efficient energy management depends directly on a good knowledge of the disturbances affecting the power quality. Recent research works have investigated and improved power quality by developing advanced identification and control methods. Improving the quality of the power involves intelligent control laws based on signal processing, artificial neural networks, fuzzy logic, model predictive control, linear–quadratic–Gaussian control, etc. Applying advanced techniques to improve power quality in real-time applications is a challenging problem, and this Special Issue proposes to explore the latest advances. Topics of interest include, but are not limited to:

- Power quality improvement using fuzzy logic and artificial neural networks
- Harmonics identification and frequency tracking with signal processing
- Control of active power filter (APF)
- Power factor correction

Guest Editor

Prof. Dr. Djaffar Ould Abdeslam
Laboratoire IRIMAS, IUT de Mulhouse, Université de Haute Alsace, 68093 Mulhouse Cedex, France

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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