



Recent Advances in Power Quality Improvement

Guest Editors:

Dr. Alexandre Nassif

Technology Innovation, LUMA
Energy, San Juan, PR 00907, USA

Dr. Ricardo Torquato

Department of Electrical and
Computer Engineering, University
of Campinas, Campinas 13083-
872, Brazil

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Message from the Guest Editors

Dear Colleagues,

With the increasing penetration of power-electronics-based technologies (e.g., wind and photovoltaic generators, electric vehicle chargers, energy storage systems) in distribution systems, new power quality issues are emerging. It is essential to develop techniques that take advantage of these available data and provide actionable information for utilities to anticipate and mitigate such power quality issues.

This Special Issue aims to gather articles which cover a vast range of applications for different types of measurement data (rms, phasor, and waveform measurements) available in modern power systems, which shall include (but are not limited to) measurement-based methods to anticipate, detect and mitigate new power quality issues that are emerging in circuits with a high penetration of inverter-based resources (IBRs). New methods and approaches to detect and mitigate traditional power quality issues such as voltage sags/swells, flicker and voltage unbalance are also welcome.

Keywords

- power quality
- data analytics
- inverter-based resources





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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
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