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Power Quality Monitoring with Energy Saving Goals

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Deadline for manuscript submissions:
closed (25 March 2026)

Message from the Guest Editors

Dear Colleagues,

The energy transition that we are currently witnessing and the constant increase in demand for electricity mean that issues related to power quality are becoming ever-more critical. Power quality is described as a set of parameters describing the properties of a process of supplying energy to the user under normal operating conditions, determining the continuity of the power supply and characterising the supply voltage. However, the power quality is also related to the receivers' parameters, such as the harmonic content in currents or absorbed reactive power. These parameters significantly affect voltage degradation and are essential due to losses in energy transmission. Monitoring power quality factors and appropriate decision-making processes or devices can, therefore, impact energy savings by reducing losses. In addition, monitoring quality parameters in the electrical grid can prevent costly failures or predict the production downtime.

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Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (Control and Optimization)

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