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Power Quality and Hosting Capacity in the Microgrids

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Message from the Guest Editor

Microgrids, and the integration of distributed energy resource (DER) units in general, introduce a number of operational challenges that need to be addressed in the design of control and protection systems in a power grid. High power quality (PQ) is an essential requirement for all power grids, as poor PQ may result in equipment malfunction, overconsumption, or even early failure. Due to their unique characteristics, microgrids and RES-based power systems are particularly susceptible to PQ disturbances.

The topics of interest for this publication include, but are not limited to, power quality and possible solutions related to the following:

- Integration of DERs;
- Energy storage;
- Harmonic distortion;
- Frequency deviation;
- Voltage unbalance;
- Microgrid control and protection.











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Message from the Editor-in-Chief

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