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Application of Machine Learning in Addressing Power Quality Issues in Power Electronic Converters

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Message from the Guest Editors

Power electronic converters are playing an important role in the integration of renewable energy sources to the grid. The presence of power electronic converters leads to power quality problems such as harmonics, transients, as well as voltage swell/dips. Machine learning can play an important role in addressing these power quality issues by detecting and eliminating them. This Special Issue will focus on publishing high-quality research work in the field of power electronics, power quality, and the applications of machine learning in addressing these problems. The specific topics of interest include but are not limited to:

- Development in power electronic converters;
- Power quality problems associated with converters;
- Modern power electronic converters and their potential of addressing power quality concerns;
- Condition monitoring of power electronic converters utilizing machine learning techniques;
- Intelligent systems for addressing power quality concerns;
- Challenges associated with renewable integration;
- Propagation of harmonics through power electronic converters;
- Interaction of harmonics with converter control systems;

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Message from the Editor-in-Chief

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