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Power Electronic Converters in Renewable Energy and Active Distribution Systems

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Message from the Guest Editor

Renewable energy resources are considered the most economic and environmentally-friendly alternative to produce electricity. As most renewable energy resources are intermittent, power electronic converters are used as interfacing devices to regulate the produced power and injected currents. On the load-side, modern power electronics loads are also emerging. This includes all power electronics-interfaced loads such as uninterrupted power supplies, data centers, and vehicle-charging stations.

To achieve efficient and reliable operation, several topologies for power electronic converters are implemented, such as voltage source, current source, and multilevel converters. Therefore, modeling and stability analysis are required to preserve a stable and efficient performance under different operating conditions.
The main objective of this Special Issue is to address the associated challenges facing power electronic converters in active distribution systems.

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Message from the Editor-in-Chief

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