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Applications of Power Electronic Circuits and Systems for Future Grid

Guest Editor:

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Message from the Guest Editor

Power electronics plays a vital role in integrating various renewable energy resources to the grid to meet the current energy crisis. The smart grid is an enhanced version of the conventional electricity grid which enables energy security, reliability and integration of various renewable energy resources. Therefore, the future smart grid will pave the way for CO2 reduction and clean energy deployment.

This Special Issue will focus on recent trends and innovation in power electronic circuits and systems for future grid. The topics of interests include, but are not limited to, the following:

- Fault-tolerant converters for renewable energy
- Electric vehicle charging
- Power electronics for microgrids
- Power electronic applications in smart grid
- Power electronics for offshore windfarm integration
- Advanced power electronic interfaces for PV
- Energy storage systems
- Smart inverters
- High-power density converters
- Distributed energy resource control and integration
- Fault-ride through capability of advanced power converters











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Message from the Editor-in-Chief

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