



Renewable Energy Source Dominated Virtual Power Plant

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Message from the Guest Editors

Dear Colleagues,

SiC power devices have enjoyed rapid development in the past decade. Because of the high voltage rating, fast switching speed, and low switching loss, the SiC power devices offer great potential to change the landscape of the power electronics industry, driving higher-efficiency, higher-power-density, and higher-quality power conversion. To maximize the performance of power converter systems with SiC power devices, innovative technologies are expected from both academia and industry. The topics of interest include, but are not limited to:

- Manufacture of SiC power devices;
- Test, characterization, and modelling of SiC power devices;
- Health monitoring and fault diagnosis for SiC power devices;
- Packaging technologies for SiC power devices;
- Series and paralleling technologies for SiC modules;
- High-performance gate driver and gate driver power supply for SiC power devices;
- High-performance SiC power converter;
- EMI solutions to SiC power converter systems;
- Cooling and insulation design for SiC power converter systems;
- Reliability of SiC power devices and SiC power converter systems.





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Message from the Editor-in-Chief

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