

IET Renewable Power Generation Call for Papers

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Editor-in-Chief: David Infield, University of Strathclyde, UK

Special Issue on:

Recent Applications of Power Electronics & Drives in Renewable Power Generation

Extensive research is being performed on renewable energy generation and utilisation due to decreasing fossil sources and environmental friendliness. Innovative methods in renewable energy generation and utilisation are rapidly becoming attractive. Many applications integrate renewable energy resources to existing utility grids or microgrids, or isolated loads. Power Electronics & Drives are one of the most critical components of modern applications of Renewable Energy Systems (RESs). The increased efficiency of power semiconductor devices and the robustness of machines enable the improvement of many types of power conversion and generation. Alternate energy vehicles and energy storage systems widely integrated with renewable energy resources. This special issue will be focused on emerging technologies, advanced design, and modelling studies on “Recent Applications of Power Electronics & Drives in Renewable Power Generation”.

Topics of interest include, but are not limited to:

- Reliability assessment for power electronics components of RESs
- Alternate Hydro Energy System
- Reliability and maintainability analysis for grid-connected RESs
- Hybrid coupled AC and DC micro-grids
- Condition monitoring for power electronics applied to RESs
- Special machine applications in RESs
- Impact of component reliability on overall grid-connected RESs Performance
- Novel converter topologies applications in RESs
- Reliability and availability analysis of power electronics of RESs
- RESs based Electric Vehicle Charging Stations
- EMI/EMC in Power Electronics
- Advances in modelling, control and optimization including AI methods for power electronics & drives

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