



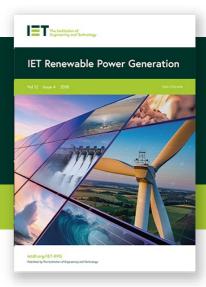
IET Renewable Power Generation

Call for Papers

Submission Deadline: 31st July 2022 | Publication Date: February 2023

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 semiconductors 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
- 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 maintainability analysis for grid-connected 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 Al methods for power electronics & drives

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Guest Editors:

Dr. Khadim Moin Siddiqui (Lead), Shri Ramswaroop Memorial College of Engineering and Management, (SRMCEM), Lucknow, India, E: siddiquikhadim@srmcem.ac.in

Dr. P. Sanjeevikumar FIETE, FIE, FIET (UK), Aarhus University, Denmark, E: sanjeev@btech.au.dk
Dr. Mohamed Benbouzid, FIEEE, FIET (UK), Brest University, France, E: Mohamed.benbouzid@univ-brest.fr
Dr. Dr. Color, FIEEE, FIET (UK), Brest University, France, E: Mohamed.benbouzid@univ-brest.fr

Dr. R.K. Saket, FIE, SMIEEE, MIET (UK), IIT (BHU), Varanasi (UP), India, E: rksaket.eee@iitbhu.ac.in

Dr. Pooya Davari, SMIEEE, Aalborg University, Denmark, E: pda@energy.aau.dk

Dr. Korhan Cengiz, SMIEEE, Trakya University, Turkey, E: korhancengiz@trakya.edu.tr
Dr. G.K. Venayagamoorthy, FIEEE, FIET (UK), Clemson University, USA, E: gvenaya@clemson.edu
Dr. Hafiz Ahmad, SMIEEE, Bangor University, UK, E: Hafiz.ahmed@bangor.ac.uk

John D. McDonald, P.E., IEEE Life Fellow, CIGRE Honorary Member (2021), CIGRE Distinguished Member (2016), Smart Grid Business Development Leader Senior Fellow, Grid Solutions, GE Renewable Energy, USA, E: johnd.mcdonald@ge.com Dr. Farhad Ilahi Bakhsh, NIT Srinagar, India, E: farhad@nitsri.ac.in