

CALL FOR PAPERS



Special Session on Inverter/Converter Topologies and Control for Renewable

Energy Applications

SPIES 2019-The International Conference on Smart Power & Internet Energy Systems

April 25-27, 2019, Melbourne, Australia



Inverter/Converter Topologies and Control for Renewable Energy Applications

Abstract: The increasing rate of the depletion of conventional energy sources along with increase in the demand of electrical energy as well as reducing the carbon emission footprint have given rise to an increased emphasis on renewable energy sources. Extensive researches are being performed to integrate renewable energy sources to existing utility grid. Power electronics Converters are one of the essential component used for it. In this special session, Recent emerging technological advancements, designing and modeling and control studies on " Inverter/Converter Topologies for Renewable Energy applications" will be discussed. Topics of interest include, but are not limited to:

- Topologies of multilevel inverters for wind and Solar
- Topologies of dc-dc converters
- Control system design for frequency control and voltage control

- Topologies modifications applied to multilevel inverters
- Energy storage systems with Renewable energy systems
- Direct and Indirect Matrix Converter and Solid State Transformers
- Cascaded Multilevel inverter with reduced switch count
- PID Control, Sliding mode Control, H infinity control strategies

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Schedule:

Deadline for submission of special session paper to Special Session Organizer- December 31, 2018

Notification of acceptance – January 31, 2019

Deadline for submission of final manuscripts to the Special Session Organizer-February 15, 2019