

CALL FOR PAPERS

Special Session on “Grid Interfacing Challenges for Renewable Energy Systems”



SPIES 2020-2nd International Conference on Smart Power & Internet Energy Systems
June 02-04, 2019, Bangkok, Thailand



ORGANIZED AND CHAIRED by

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SPECIAL SESSION DESCRIPTION

Penetration of renewable energy sources into the existing grid system has been increasing significantly since the last decade. Currently, some of the countries are already generating more than 50% of their required energy from renewable sources and they are moving forward for 100% renewables. With increased penetration ratio, power grid interfacing technologies are getting more complex. Thus, stability issues are the main concern. Modern grid code demanded that the renewable energy sources should support the power system similitter like conventional units. Due to this, control system and filter designing task of renewable energy are getting more attention in order to ensure smooth operation of power system. This special session will focus on different types of control strategy for power electronic converters of renewable energy sources.

TOPICS COVERED

- Virtual Inertia/Sythetic Inertia Controller design of Renewable Energy Sources (i.e. Wind Turbine, PV systems etc.)
- Low Voltage ride through/ Fault Ride Through of Renewable Energy System
- Application of Intelligent Control Techniques to Power System
- Energy storage system, FACTS devices for Renewable Energy System, HVDC System
- Power Electronics applications for Renewable Energy System

Schedule:

Deadline for submission of the paper (s) to the EasyChair submission site by selecting the desired special session- January 10, 2020

Notification of acceptance – February 29, 2020

Deadline for submission of final manuscripts through EasyChair- March 10, 2019

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