

CALL FOR PAPERS



Special Session on *Stability of Low-inertia Power Systems and Microgrids*

IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
October 21-23, 2018, Washington D.C, USA



TOPIC OF THE SPECIAL SESSION

Moment of inertia is one of the key elements that influence the stability of power systems. The increasing penetration of low-inertia renewable generation units and energy storage systems have shown impact on the dynamic behavior of power systems. This special session is intended to share knowledge of new modeling, control and optimization approaches related with low-inertia power grids. Microgrids can be considered as an example where inverter-interfaced renewable generation units and energy storage systems can have significant impact on the overall system stability.

Topics of the Session:

- Microgrid small-signal stability analysis
- Microgrid transient stability analysis
- Parallel inverter coordination
- Grid-tie inverter stability analysis
- New techniques for stability analysis
- New modelling approaches related with low-inertia grids
- New control approaches related with low-inertia grids

IEEE IES Technical Committee Sponsoring the Special Session:

- IEEE IES Technical Committee on Smart Grids

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Author's schedule:

- Deadline for submission of special session papers
May 1st, 2018
- Notification of acceptance
July 15th, 2018
- Deadline for submission of final manuscripts
August 1st, 2018