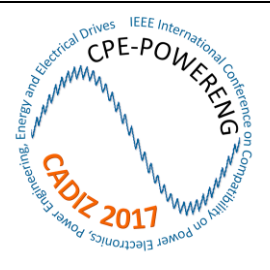




**2017 11th International Conference on  
Compatibility, Power Electronics and Power  
Engineering  
CPE-POWERENG 2017  
[www.cpe-powereng2017.org](http://www.cpe-powereng2017.org)**



**4-6 April, 2017  
Cadiz, Spain**

## **CPE-POWERENG 2017 Special Session**

Special Session on: **Recent Advances in Smart Grid Management and Control**

Technical Outline of the Session (100-200 words) and Topics:

The smart grid is a power network composed of distributed nodes operating under the pervasive control of smart subsystems called microgrids. Microgrids have smart features enabling the integration of renewables in an easy, reliable, and stable manner. Successful implementation of microgrids within the current power grids requires close coordination between the energy sources, electrical utility, and local loads through the use of advanced functionalities. Such technologies are provided by advanced power electronics, smart transformers, self-healing capability, smart sensors, integrated communications, advanced metering infrastructure, advanced control, energy management strategies, and energy storage.

The foreseen aim is therefore to attract all researchers having related contributions on recent advances in smart grid operation management and control to submit their papers to this Special Session. Topics of interest include, but are not limited to:

- Fault ride through capability
- Smart Grid Optimization
- Energy Trading
- Grid synchronization techniques
- Self-Healing Grid
- Advanced Metering Infrastructure
- Microgrids optimization and management
- Bidirectional power flow control
- Smart transformers for smart grid
- Energy management of smart grid
- Energy Storage for smart grid
- Microgrids interconnection

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