ictf 2016 IEICE

Special session on:

Communications and information processing for the smart grid

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Scope of the session

The smart electricity grid is recently enjoying increasing attention both in research and implementation. The need of delivering, in a cost-effective manner, high-quality robust and secure real-time smart energy/management solutions to a rapidly growing market is an important issue. The use of advanced solutions and technologies is considered as the fundamental enabler towards the main goal of reducing greenhouse gas emissions and to improve overall energy efficiency. Although some important steps have been made in this direction, new advanced solutions are required to fully exploit the benefits of new technologies in the area. This session aims at bringing together researchers from academia and industry, to meet and exchange ideas on recent research and future directions.

Prospective authors are invited to submit original and unpublished work on research topics including the following:

- Demand side management, demand response, dynamic pricing
- Large-scale load control and demand elasticity
- Design, analysis and implementation of forecasting algorithms for demand response.
- Management and optimization methods for EV/PHEV: Applications in the smart grid
- Management of energy consumption of buildings
- Optimization methods and algorithms applied to the smart grid
- Renewable energy systems & microgrids
- Robust, secure and efficient communication protocols and standards (for smart grid applications)
- Optical wireless network architectures for smart grids
- Protocols for optical wireless networks for smart grids
- Very High Throughput mm-wave communications over optical wireless networks for smart grid applications
- Radio-over-fiber technologies and architectures for smart grids

The session is jointly organized by Marie Curie IAPP projects SMART-NRG (www.smart-nrg.net) and COMANDER (www.mc-comander.eu).

SMART-NRG

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