

CALL FOR PAPERS



Special Session on Smart Automation, Control and ICT Concepts applied to Power and Energy Systems

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

The power and energy systems domain is experiencing a major change in terms of operation and plan-ning. The advancement into a so called smart energy system or a smart grid produces new challenges. With the introduction of distributed, renewable generation (e.g., solar, wind, small hydro power) and controllable loads (e.g., electric vehicles, energy storage systems) new and advanced automation, con-trol, and Information and Communication Technology (ICT) concepts and corresponding methods are required in order to cope with these new challenges. This special session targets this challenging, interdisciplinary field.

Topics of the Session

- Advanced information and communication systems
- Distributed automation concepts
- Distribution automation and SCADA systems
- Demand-side management concepts
- Holonic, multi-agent and service-oriented concepts
- Self-healing systems covering fault location, isolation, service restoration, etc.
- Application of smart grid related automation standards (e.g., CIM, IEC 61850, OPC UA, IEC 61499)
- Modelling, simulation and validation concepts for cyber-physical energy systems

IEEE IES Technical Committee Sponsoring the Special Session:

- IEEE IES TC on Smart Grids
- IEEE IES TC on Industrial Agents
- IEEE IES TC on Industrial Cyber-Physical Systems
- IEEE IES TC on Standards

ORGANIZED AND CO-CHAIRD BY

Thomas Strasser

AIT Austrian Institute of Technology
thomas.i.strasser@ieee.org

Paulo Leitão

Polytechnic Institute of Bragança
pleitao@ieee.org

Marco Cupelli

RWTH Aachen University
mcupelli@eonerc.rwth-aachen.de

Sebastian Rohjans

Hamburg University of Applied Science
sebastian.rohjans@haw-hamburg.de

Filip Prössl Andrén

AIT Austrian Institute of Technology
filip.proestl-andren@ait.ac.at

Author's schedule:

- Deadline for submission of special session papers
Date 1 (use from <http://www.iecon2018.org>)
- Notification of acceptance
Date 2 (use from <http://www.iecon2018.org>)
- Deadline for submission of final manuscripts
Date 3 (use from <http://www.iecon2018.org>)