

Second IEEE International Workshop on Smart Grid Communications

Kyoto, Japan, June 5, 2011

in conjunction with IEEE International Conference on Communications

Workshop Co-Chairs:

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Submission:

The manuscripts must be originally written in English, and no more than **5** two-column pages following IEEE format in PDF. Please submit your paper through EDAS with the following schedule:

Submission Deadline:

October 15, 2010

Notification:

January 11, 2011

Camera-Ready Due:

February 11, 2011

Accepted papers will be published in the ICC CD and at the IEEE Xplore.

Website:

<http://comm.ntu.edu.tw/smartgridcomm/>

Call for Papers:

Developing smart grid has become an urgent global priority, as its immense economic, environmental and societal benefit will be enjoyed by generations to come. Information and communication technologies (ICT) will empower conventional power grid to support two-way energy and information flow, which in turn can help the world reduce dependence on fossil fuel, enable demand response and distributed energy resources, accelerate the adoption of clean energy technology and ultimately achieve sustainable prosperity. Communications for smart grid is not only a noble calling but also a tall order. To meet the challenges, we have to resort to a variety of paradigm-shifting technologies. In addition, various international standardization bodies have recently established new initiatives for smart grid (e.g., IEEE P2030).

International Workshop on Smart Grid Communications aims to bring together researchers from academia, industry and government to exchange novel ideas, explore enabling technologies, discuss innovative designs, and share trial experiences. Subjects of interests include but not limit to

- Enabling ICT for smart home (e.g., IEEE 802.15, mesh, Zigbee, powerline communications, IPv6, etc.)
- Enabling ICT for smart meters (e.g., broadband cellular system, powerline communications WiMAX/LTE, mesh, etc.)
- Design paradigm for distributed control under communication constraints
- Enabling ICT for demand response and distributed energy resources
- Privacy protection and security for smart grid
- ICT for smart power grid (e.g., NASPInet, DMP3, BACNet, etc.)
- Interference avoidance and cognitive radio
- Enabling ICT for plug-in hybrid electric vehicle (PHEV) system and network
- Reliable self-healing networking for smart grid
- ICT for wide-area situational awareness (e.g., fault-detection and localization, sensing, etc.)
- Routing for smart grid (e.g., IETF 6LoWPAN, ROLL, etc.)
- Optimization and computing methodology
- Standardization (e.g., IEEE P2030, etc.)
- Regulatory issues and business model
- Application innovation Field trials