NETWORK & COMPUTER APPLICATIONS

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Important dates

Paper submission:
October 31, 2014

Acceptance notification:
December 31, 2014

Final papers:
January 31, 2015

Publication date:
Spring/Summer 2015

Call for Papers

A Special Issue of Journal of Network and Computer Applications on

"**Smart Grid Communications: Modeling and Validation**"

Communication network is the critical infrastructure for smart grids in order to interconnect, configure, and control various power electronic devices over a large geographical area. To meet the special requirements on the network's response time and availability, major research efforts are needed in modeling, simulation, and validation of the communications in smart grids from the viewpoint of communication network. Currently, rapid progresses are going on in both academic and power industry.

This special issue will present the recent advances in smart grid communications.

Topics of interest include (but are not limited to):

- Communication requirements and network models in transmission and distribution systems

- Modeling, optimization, and simulation tools for smart grid communications

- Centralized and distributed networking issues in smart grids

- Real-time networking issues and protocols, including sensing, control, and smart metering

- Special communication protocols for smart grid services including DNP3 and IEC 61850

- Test-bed development and validations of smart grid communications, including case studies.

Submission Format and Guideline

All submitted papers must be clearly written in excellent English and contain only original work, which has not been published by or is currently under review for any other journal or conference. A detailed submission guideline is available as "Guide to Authors" at http://www.elsevier.com/wps/find/journaldescription.cws_home/622893/authorinstructions.

All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES). The authors must select as "SI – Smart Grid Communication: Modeling and Validation" when they reach the "Article Type" step in the submission process. The EES website is located at: http://ees.elsevier.com/jnca/

Requests for additional information should be addressed to the guest editors.