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Important Dates

Full paper Submission
Thursday, April 30th, 2015
Final decision notification
Friday, July 31st, 2015
Publication of Special Issue
Wednesday, September 30th, 2015
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Call for Papers

Special Issue on "Situation Awareness of Smart Grid"

The widespread deployment of intermittent renewable generation, smart consumers, AC-DC hybrid transmission and active management will require significant changes in methods and applications for smart grid operation. Situation awareness is referred as an advanced technology integrated with state-of-the-art measurement, innovative algorithm, high-performance computing and remarkable expression for better understanding of nowadays interactive power system. How to develop a novel and scalable framework with comprehensive consideration of relevant technique aspects is generally regarded as a prevailing challenge for achieving this ambition. But before that, the elaborative studies need to be carried out for each field of the proposed concept. As applied by the potential sections of power utility, the situation awareness technology is able to be fast enough to extensively provide deeper knowledge, for example security margin tendency, vulnerable components under potential disturbances and even feasibility of electricity contracts with time-varying price trade-off, for any necessitated service object. This special issue is expected to cover this promising and dynamic area of research and development, while focusing on modeling, computation and demonstration aspects.

Topics of interest of this Special Issue include, but are not limited to

the following aspects of Situation Awareness of Smart Grid:

- Novel graphical and visualized expression technology development
- Network parameter estimation with hybrid measurement
- High-performance and scalable computing for on-line application
- Active management of power system considering potential aggregators
- Trajectory based oscillation analysis and transient severity assessment
- Vulnerability identification and control strategy for mitigating blackout risk
- Big data analytics implementation

This Special Issue solicits original work on Situation Awareness of Smart Grid that must not be under consideration for publication in other venues. Full papers are solicited for reviews. Authors should refer to the CSEE JPES author guidelines at http://www.csee.org.cn/data/CSEE_JPES/ for information about content and formatting of submissions. Authors can download the template at: http://www.csee.org.cn/data/CSEE_JPES/CSEE_TEMPLATE.docx

Submission Format and Guidance

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. Papers must not exceed 8 pages (two-column, at least 11pt fonts) including figures, tables, and references. A detailed submission guideline is available as "Guide to Authors" at:

https://mc03.manuscriptcentral.com/cjpes

All manuscripts and any supplementary material should be submitted via the ScholarOne system of CSEE JPES. The authors must give a reference "SI: Situation Awareness of Smart Grid" in the submission cover letter. The CSEE JEPS website is located at:

http://www.csee.org.cn/data/CSEE_JPES/

All papers will be peer-reviewed by three independent reviewers. Requests for additional information should be addressed to the guest editors.