12th International Conference on Compatibility, Power Electronics and Power Engineering CPE-POWERENG 2018
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Special Session on
Big Data and Cyber Security in Smart Grids
organized and co-chaired by:

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Call for Papers

Outline of the Session:

Smart grid is a modernized, complex environment composed of different kinds of nodes, devices, networks, systems, and numerous applications, which generate huge amount of data on a batch or real-time basis between utilities and customers. Such data require complex treatments and effective management and analytics because of their nature, constraints, and needs. Those data are dependent on the information and communication technologies (ICT), which finally helps increasing grid reliability, availability, security, and efficiency through information exchange. However, the increased ICT dependency also introduces additional challenges and threats for electric power systems resulting from misconfigurations of network equipment, poor network design, and vulnerabilities in software and operating platforms, security policy and standards weaknesses.

Thus, the purpose of this session is to bring together researchers and developers from academia, industry and governmental institutions to share and exchange novel ideas, technologies, strategies and case studies associated with big data and cyber security for smart grid applications and grid modernization.

Topics of interest include, but are not limited to:

- Data mining, data science and big data in smart grid.
- Big data analytics, technologies, techniques and solutions for Smart grids
- System security concerns
- Vulnerabilities, threats and associated risks in smart grid communication networks
- Security requirements for information and infrastructure
- Security risk analysis, modeling, evaluation and management
- Secure monitor and control of distributed smart grid networks
- Analysis of data from sensors and social media
- Privacy in big and stream data analytics

Author's schedule:

Deadline for submission of special session papers   November 15, 2017
Notification of acceptance   January, 2018
Deadline for submission of final manuscripts   February, 2018

All the instructions for paper submission are included in the conference website:
http://www.cpe-powereng2018.org/