CALL FOR PAPERS

Special Session on Big Data and Cyber Security in Smart Grids

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

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 the Session

- Data mining, data science and big data in smart grid.
- Big data analytics, technologies, techniques and solutions for smart grids
- 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

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Author's schedule:
- Deadline for submission of special session papers
  May 1, 2018
- Notification of acceptance
  July 15, 2018
- Deadline for submission of final manuscripts
  August 1, 2018

For additional information please visit www.iecon2018.org