

Call For Papers

IEEE International Conference on Smart Energy Grid Engineering [SEGE] 2017

14-18 August, 2017, University of Ontario Institute of Technology, Oshawa, Ontario, Canada

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Smart Energy Grids are energy networks that promise to enhance the operational efficiency of nationwide energy and power supplies via distributed generation with bi-directional energy and electricity flow. This objective is achieved by allowing intelligent monitoring and control of different components within the distribution and transmission lines as well as other systems from utilities of natural gas, thermal energy, electricity, and water on the one side to the end user on the other side, while maintaining the energy and power quality, security, reliability and safety with minimum environmental impacts. Governments around the world are investing heavily in smart energy grids to ensure optimum energy use and supply, enable better planning for outage responses and recovery, and facilitate the integration of heterogeneous technologies such as renewable energy systems, electrical vehicle networks, and smart homes around the grid. Smart Energy Grids present enormous engineering challenges in the design and integration of energy and electrical grids with communication and network technologies, along with substantial questions of security and privacy of different components within the grid. The SEGE conference aims at providing an opportunity to discuss various engineering challenges of smart energy grid design and operation by focusing on advanced methods and practices for designing different components and their integration within the grid. It also provides a forum for researchers from academia and professionals from industry, as well as government regulators to tackle these challenges, and discuss and exchange knowledge and best practices about design and implementation of Smart Energy Grids.

Topics of interest include (but not limited to) the following:

- Resilient / adaptive grid infrastructures design, planning, operation and management
- Thermal networks, storage, import / export, control, optimization, and applications
- Hydrogen and natural gas networks, production and supply chain, integration
- Gas-power generation systems design and applications
- Power Electronic converters and drives
- Energy storage technologies and systems
- Demand monitoring and energy Efficient Systems
- FACTS, active power filters, power quality monitoring and performance enhancement
- Sensors, communications and network
- Grid modeling, simulation, and data management
- Energy efficiency, conservation, and savings
- Plug-in Hybrid Electric Vehicle (PHEV) systems, CNG vehicles, clean transportation
- Grid protection, reliability, energy / power quality and maintenance
- Smart metering, measurement, instrumentation, and control
- Information, security and privacy for smart energy grids
- Renewable energy, wind, solar, fuel cells and distributed generation within microgrids
- Computational intelligence and optimization for smart energy grids
- Smart homes, cities, communities
- Life cycle assessment, pricing, policies, and energy planning
- Smart energy grid education

Important Dates

Abstract Submission: 1-Feb-2017
First Notification: 28-Feb-2017
Full Paper Submission: 1-Mar-2017
Acceptance Notice: 1-Apr-2017
Camera-Ready Due: 1-May-2017
Conference dates: 14-Aug, 2017

The authors of approved abstracts will be invited to submit full papers.

Selected papers will be published in selected journals, including the International Journal of Process Systems Engineering (IJPSE), Special Issue on Smart Energy Grid Engineering.

Conference Web Site

www.sege-conference.com

Paper Submission

<https://www.easychair.org/conferences/?conf=sege2017>

Contact Information

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