



CALL FOR PAPERS

IEEE PES Innovative Smart Grid Technologies - Asia 2016
Melbourne, Australia
28 Nov. 2016 – 1 Dec. 2016

Conference

The IEEE PES Innovative Smart Grid Technologies 2016 Asian Conference (ISGT Asia 2016) will be held from 28-Nov to 1-Dec 2016 at the Melbourne Exhibition and Convention Centre in Melbourne, Australia. The conference will be co-sponsored by the IEEE Power and Energy Society and the IEEE Victoria, Australia Section, and hosted by the University of Melbourne.

IEEE ISGT Asia 2016 will be a venue for stakeholders from academia, electric power utilities, power and energy service providers, and research and development organizations to share and exchange experiences, new ideas and enabling technologies which will address the enormous challenges to be faced by the industry in response to decarbonization of generation and integration of high levels of renewable energy resources into future power grids.

Topics

The conference organizing committee invites contributions in all areas related to smart grid technologies, including (but not limited to) the following:

Information and Communication Technologies (ICT)

- The role of ICT in future operation of smart grids
- Advanced metering, data acquisition and monitoring
- Sensor networks and their challenges
- Information and communication protocols and standards
- Large scale data analytics

Integration of Renewables

- Grid integration of distributed energy resources
- Grid integration of energy storage systems and their control
- Forecasting, both of generation and demand
- Frequency and voltage stability
- Impact of renewables on energy markets and prices, both wholesale and retail

Grid operation

- Fault Diagnostics in components and systems
- Grid modelling, analysis and simulation including real-time and co-simulation
- Islanded systems, microgrids and safe disconnection
- Wide area power systems stability and reliability
- Asset condition monitoring and management
- Active distribution network operation and management

Emerging Technologies

- Distributed solar photovoltaic generation and energy storage
- Impacts and control of plug-in electric vehicles
- Opportunities, integration, and control of DC Networks
- Smart cities solutions, smart buildings, and home automation
- Next generation inverters

End Users

- Regulatory aspects, electricity market mechanics, designs and business models
- Demand response and management
- Customer aspects, user behaviour and flexible demand
- Control strategies and architectures for aggregation and smart services
- Cyber-security and risk assessment

Important Dates

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|--------------------|-------------|
| Session proposals: | 1 May 2016 |
| Session decisions: | 8 May 2016 |
| Paper submission: | 3 June 2016 |
| Paper decisions: | 8 Aug 2016 |
| Final submission: | 5 Sep 2016 |

<http://www.ieee-isgt-asia.org/>

Technical Papers

Authors may submit full papers of up to six A4-sized pages in length, including figures, tables and references, by **3 June 2016**. Papers must be formatted in accordance with the full paper template for conference papers, available in the PES Author's Kit. A decision will be made by 8 August 2016, and final papers must be submitted by 5 September 2016. Among the accepted papers, some will be accepted for full paper presentation (a 15-minute speaking slot), and others will be accepted for presentation as posters. All accepted papers will be indexed by IEEE Xplore, provided that one or more authors present them in person.

Tutorials

Tutorials on relevant topics will be held on 28 November 2016 at the University of Melbourne, with the following topics being of special interest:

- Integration of renewable energy sources into power grids
- Voltage, frequency and transient stability issues in future smart grids
- Demand response, management and storage

Please submit your proposals for tutorials to the Tutorial Chair by **15 March 2016**. A decision will be made by 15 April 2015.

Invited Technical Sessions

A limited number of invited technical sessions will be held as part of the conference from 29 November to 1 December 2016. Proposals are invited for two kinds of invited sessions: Academic, and Industry. Please see descriptions and submission procedures for each of these on the website. Proposals are due 1 May 2016, and a decision will be made by 8 May 2016.

Invited Panel Sessions

A limited number of invited panel sessions will be held as part of the conference. Panel sessions comprise of 4-5 invited experts to discuss a topical issue of importance to the operation and control of present and future power grids. Each panellist will be asked to talk to the issue for 10-15 minutes, to be followed by live discussion with the floor, moderated by the session organiser(s) and chair(s). Please see descriptions and submission procedures on the website. Proposals are due 1 May 2016, and a decision will be made by 8 May 2016.

Conference Proceedings

The conference proceedings of IEEE ISGT Asia 2016 will be made available to conference participants on memory sticks and published on IEEE Xplore. Hard copies of paper abstracts and the conference programme will be provided to all participants.

Website

For more information, including paper submission, registration, program, committees, and venue, please see the conference website:

<http://www.ieee-isgt-asia.org/>