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*Scientific Program*

International Conference on

# Smart Grid Technologies

September 11-12, 2017 Singapore



**Hosting Organization: Conference Series LLC**

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## Day 1 September 11, 2017

09:00-09:15 Registrations

Seletar Room 2

**conference**series.com 09:15-09:30 **Opening Ceremony**

### Keynote Forum

09:30-10:15 **Title: Solving stochastic optimization by shaping the probability density function of cost functions and constraint equations**

**Hong Wang**, Pacific Northwest National Laboratory, USA

10:15-11:00 **Title: Towards a resilient information architecture platform for smart grid**

**Gabor Karsai**, Vanderbilt University, USA

### Group Photo

Coffee Break & Refreshments 11:00-11:15 @ Seletar Foyer

Sessions:

Smart Grid Technology | Renewable Energy Resources | Power Meters | Energy Storage

Session Introduction

**Session Chair: Hong Wang**, Pacific Northwest National Laboratory, USA

11:15-11:45 **Title: Research on power quality disturbances classification based on S transform and dynamics**

**Li Kaicheng**, Huazhong University of Science and Technology, China

11:45-12:15 **Title: Development of businesses using smart grid technologies in Japan**

**Takashi Iwamoto**, Keio University, Japan

12:15-12:45 **Title: Energy disaggregation on hourly whole-building data combing with robust information**

**Qing Gao**, Fudan University, China

Lunch Break 12:45-14:00 @ Atrium Restaurant

14:00-14:30 **Title: How does information affect willingness to pay for green power?**

**Yang Zhou**, Fudan University, China

14:30-15:00 **Title: General synthesis of N-doped macroporous graphene-encapsulated mesoporous metal oxides and its application as anode materials for sodium-ion hybrid supercapacitors**

**Min Su Kim**, Pohang University of Science and Technology, South Korea

15:00-15:30 **Title: IoT: A smart gateway for smart grid technology**

**Sowjanya Dundhigal**, CMR College of Engineering & Technology, India

Networking & Refreshments 15:30-15:45 @ Seletar Foyer

15:45-16:15 **Title: Beyond classical heat transfer**

**Liqiu Wang**, University of Hong Kong, Hong Kong

16:15-16:45 **Title: Short term PV power forecasting for demand response and storage control in smart grid energy management**

**Mohammad Rizwan**, Delhi Technological University, India

### Panel Discussion

## Day 2 September 12, 2017

Seletar Room 2

### Keynote Forum

10:00-11:00 **Title: Standardized encryption key management for smart grids with KMIP**

**Tony Cox**, Cryptsoft, Australia

Sessions:

Solar Cells | Energy Storage | Cybersecurity | Smart Appliances

Session Introduction

**Session Chair:** Gabor Karsai, Vanderbilt University, USA

**11:15-11:45** **Title: Productive facades: Potential energy and food harvesting in singapore's residential buildings**  
**Abel Tablada de la Torre**, National University of Singapore, Singapore

**11:45-12:15** **Title: Toward a five themes sustainability concept in developing countries: Case study of a national sustainable building assessment system in Oman**  
**Muhannad Al Jebouri**, Universiti Kebangsaan Malaysia, Malaysia

**12:15-12:45** **Title: Rural electrification in Africa: New technologies are needed**  
**Alphonse Omboua**, University of Brazzaville, DR Congo

Lunch Break 12:45-13:45 @ Atrium Restaurant

**13:45-14:15** **Title: Smart energy-systems for large-scale integration of renewable electrical energy**  
**Koksal Erenturk**, Ataturk University, Turkey

**14:15-14:45** **Title: Machine learning approach to cyber security in smart grid**  
**Kshitija Bhasme**, SNDT Women's University, India

**14:45-15:15** **Title: Efficient nonintrusive load monitoring technique**  
**Muhammad Kamran**, University of Engineering and Technology, Pakistan

**15:15-15:45** **Title: Residential load scheduling method with load balancing for demand response in home energy management system**  
**Geetha S**, Surya Engineering College, India

**Panel Discussion & Certificate Distribution & Closing Ceremony**

**Next in Series**

**2<sup>nd</sup> International Conference on**

**Smart Grid Technologies**

**July 11-12, 2018 Sydney, Australia**