

IEEE Green Energy and Systems Conference 2016

Theme: **Toward Resilient and Sustainable Cyber-Physical
Energy and Communication Systems**

Date: 8:30 AM – 5:00 PM, Monday, Nov. 7, 2016

Venue: The Pointe (Pyramid), CSULB, Long Beach, CA

Pre-conference Reception:

Ayres Hotel Seal Beach, Nov. 6 (Sunday), 6:00 – 8:00 PM

IGESC 2016 Program

- 8:30 – 9:00 Registration
- 9:00 – 9:40 Keynote Speaker: Dr. Merwin Brown, Co-Director, California Institute for Energy and Environment, University of California
Title: The Real Reasons We Must Have a Smart Grid for the 21st Century
- **Track 1** **Power Systems (Morning) and Power Systems & Electronics (Afternoon)**
- 9:40 – 10:05 J. Lu, et. al., East China Electric Power Control Center, “Integration of Renewable Resources in East China Grid”
- 10:05 – 10:30 A. Pandey, et. al., Carnegie Mellon University, “Aggregated Load and Generation Equivalent Circuit Models with Semi-Empirical Data Fitting”
- 10:30 – 10:45 Break
- 10:45 – 11:10 O. Ansari, et. al., University of Saskatchewan, “Reliability Assessment of Microgrid with Renewable Generation and Prioritized Loads”
- 11:10 – 11:35 M. Hossain, et. al., University of New Orleans, “Emission Trading Mechanism for Environmental Economic Generation Dispatch”
- 11:35 – 12:00 A. Latif, et. al., Austrian Institute of Technology, “Multi-Objective Reactive Power Dispatch in Distribution Networks Using Modified Bat Algorithm”
- ▶ 12:00 – 1:00 Lunch and Poster Paper Display
- ▶ 12:40 – 12:50 Presentation by Dr. Brian Jersky, Provost, CSULB
- ▶ 1:00 – 1:30 Luncheon Speaker: Dr. Mo Jamshidi, ACE Laboratory, the University of Texas
Title: Electricity Grid: From Current to Micro to Smart

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- 1:30 – 1:55 C. Wang, et. al., China Southern Power Grid EPRI, “Modeling and Control of Energy Storage System in a Microgrid”
- 1:55 – 2:20 R. Kerekes, et. al., Budapest University of Technology and Economics, “Energy Supply of Settlements Implementing the Method of Micro Grid”
- 2:20 – 2:45 X. Li, Electric Power Research Institute of Guangdong Power Group Co., “IMC-PID for Design for Power Control Based on Closed-loop Identification in the Frequency Domain”
- 2:45 – 3:00 Break
- 3:00 – 3:25 S. Sim, et. al., California State University, Long Beach, “SSR Alleviation with the PID Controller”
- 3:25 – 3:50 S. Munukuntla, et. al., University of New Orleans, “Sensitivity Analysis of Synchronous Generators for Real-Time Simulations”
- 3:50 – 4:15 E. Sanchez, California State University, Long Beach, “Component Validation Process for High Performance Hybrid Electric Race Vehicle”
- 4:15 – 4:40 S. Hanif, Technical University of Munich & TUM CREATE, “Residential Load Profile Simulator for Megacities: Case Study of Singapore”
- 4:40 – 4:50 Awards and Concluding Remarks
- 4:50 – 5:00 Ice Cream Social Gathering

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- **Track 2 Power Electronics (Morning) and Networking & System Engineering (Afternoon)**
- 9:40 – 10:05 A. Buchroithner, et. al., Graz University of Technology, “Designing an Autonomous Power System for a Stand-Alone Heliostat”
- 10:05 – 10:30 A. Buchroithner, et. al., Graz University of Technology, “Estimating Costs of Heliostat Production at High Volumes Based on a Small-Scale Prototype”
- 10:30 – 10:45 Break
- 10:45 – 11:10 C. Jing, et. al., eMIT, LLC, “Automatic Data Exchange for Electromagnetic Simulation”
- 11:10 – 11:35 A. Fares, et. al., California State University, Long Beach, “Two-Area System Analysis & Control”
- 11:35 – 12:00 S. Eisa, et. al., New Mexico Institute of Mining and Technology, “Sensitivity Analysis of a Type-3 DFAG Wind Turbine's Dynamics with Pitch Control”
- ▶ 12:00 – 1:00 Lunch and Poster Paper Display
- ▶ 12:40 – 12:50 Presentation by Dr. Brian Jersky, Provost, CSULB
- ▶ 1:00 – 1:30 Lunch Speaker: Dr. Mo Jamshidi, ACE Laboratory, the University of Texas
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- 1:30 – 1:55 M. Babaeian, et. al., California State University, Long Beach, “Real Time Driver's Drowsiness Detection Using Logistic Regression Based Machine Learning Algorithm”
- 1:55 – 2:20 Z. Hu, et. al., Global Energy Interconnection Research Institute, “A SDN-based Communication Architecture for WAMS”
- 2:20 – 2:45 H. Wang, et. al., University of Washington, “Renewable Energy-Aware Demand Response for Distributed Data Centers in Smart Grid”
- 2:45 – 3:00 Break
- 3:00 – 3:25 G. Gramajo, et. al., California State University, Long Beach, “Path-Planning for an Unmanned Aerial Vehicle with Energy Constraint in a Search and Coverage Mission”
- 3:25 – 3:50 Z. Ma, et. al., University of Southern Denmark,” Market Opportunities and Barriers for Smart Buildings”
- 3:50 – 4:15 H. Khan, Pakistan Institute of Engineering and Applied Sciences, “Energy Aware Smart Home Automation with Arduino and LabVIEW”
- 4:15 – 4:40 K. Sautbine, et. al., California State University, Long Beach, “Alloying Noble Metals to Improve Catalyst Performance in PEMFC's”
- End of Track 2 Program
- Combined with Track 1 Program