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jenslin@clemson.edu & gkumar@ieee.org

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Contact:

Dr. Johan Enslin
jenslin@clemson.edu
+1 (843) 740-5117

Dr. Kumar Venayagamoorthy
gkumar@ieee.org
+1 (864) 656-5936

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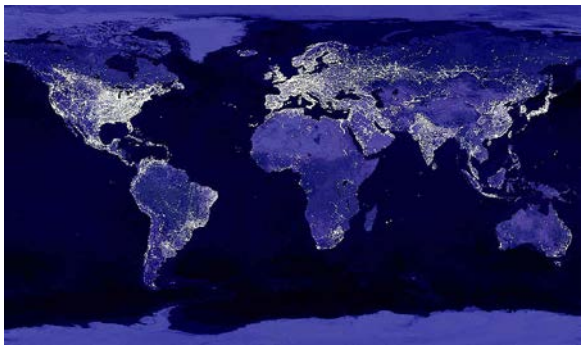

Theme: Smart Grid

Preferred topics include, but not limited to the following:

• Advanced Metering Infrastructure: practical utility applications & new technologies, SCADA systems, and metering systems
• Advanced Signal Processing for Smart Grid
• Carbon Economy in the Smart Grid Operations
• Control Center Applications: big data, situation awareness, real-time control and applications, visualizations
• Computational Intelligence and Paradigms for Smart Grid: big data analytics, evolutionary computation, fuzzy logic, neutral networks, swarm intelligence and other computing/machine earning algorithms and paradigms.
• Cyber Security of the Smart Grid
• Electric Transportation and Smart Grids: electric vehicle charging/discharging strategies, grid interface and impacts, resilience, sustainability.
• Electromagnetic Pulse (EMP) and Smart Grids: Effects, impacts and potential solutions.
• Energy Efficiency and Consumption: business models, incentives, markets, policies and frameworks, and smart customers, loads and meters.
• Energy Harvesting and Conversion: smart power electronics, resilience, and sustainability
• Energy Storage Devices and Systems: batteries, fuel cells, super-capacitors, sustainable technologies
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• Next Generation Control Centers: Generation, transmission & Distribution control centers and system operators.
• Power System Analysis, Computation, Control and Stability, Economics, Markets, Modeling, Optimization, Protection, and Operations
• Power Systems Communication: power line communications, software defined networking, wireless technologies, and applications in control, metering, and monitoring
• Power Systems Security and Reliability: SCADA and EMS cyber security, physical security for facilities, regulatory compliance
• Renewable Energy Systems: Biomass, hydro, solar, wind and other renewable technologies and systems.
• Smart Grid Engineering Education: Innovative education for industry, professionals, university and workforce development.
• Synchrophasors in Smart Grids: distribution & transmission systems monitoring, control and management, EMS, situational awareness/intelligence systems.
• Wide Area Systems: monitoring, protection and control

Important Dates:

Submission of Abstracts: December 15th, 2017
Notification of Abstract Acceptance: January 5th, 2018
Full Paper Submission: February 16th, 2018
All papers must meet IEEE paper publication guidelines and format.
Notification of Full Paper Acceptance: April 27th, 2018
Final PDF and IEEE © Form: May 25th, 2018
Advanced Registration: May 6th, 2018
Tutorials and Exhibit Setup: September 4th, 2018
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