



IEEE 2nd Global Power, Energy and Communication Conference
Ephesus, Izmir/TURKEY
October 20-23, 2020



Special Session on Smart Inverters and Data Driven Controls in Power and Energy Systems

Incorporation of big data in power and energy system gets renewed interest with new algorithms for data analysis, storage, machine learning, and new smart inverters. Integrating data analytics in power system can be used to improve the control, monitoring and efficiency of the power and energy industries. A large number of viewpoints in ranging from economic studies to technical analysis with renewable energy systems. Big data analytics brought several opportunities and challenges for the researchers and power industries, which required further research in this domain. This session aims to collect the latest theoretical and technological advancement in smart inverters and data driven control in power and energy systems. Manuscript with theoretical, numerical/experimental results, case studies are strongly welcome.

Topics of interest include, but are not limited to:

- Energy data visualization;
- Energy data collection and clustering;
- Smart meter/inverter data application for control and monitoring;
- Real time monitoring of power system stability;
- Data driven control of inverters-smart inverter;
- Application of data driven control in motor and drives;
- Fault detection and analysis;
- Forecasting based operation and planning of power system;
- Cyber physical model development;
- Smart/hybrid inverters for grid integration; and
- Forecasting based energy management-smart inverter.

Organizer(s):

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Deadlines of the special session:

Full paper submission (maximum 6 pages):	June 1, 2020
Notification of acceptance:	August 15, 2020
Final submissions due:	September 1, 2020

All the instructions for paper submission are included at the conference website.

<http://www.gpecom.org/2020/index.php/guidelines/>