



3rd Global Power, Energy and Communication Conference

Antalya/TURKEY

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Special Session on

Smart Grid Cyber Physical Systems and their Communication Networks

Developments in sensor technology and communication systems led to the popularity of the cyber physical systems ((CPS). A CPS consists of a physical system connected to a cyber system via communication networks. The physical system generates the data on which the cyber system performs numerous computations and initiates appropriate control actions in real-time. Smart grid (SG), the evolved version of the conventional power grid is one such cyber physical system. The smart grid includes several intelligent sensors and devices such as the phasor measurement units (PMUs), smart meters, sensors for electric vehicles (EVs), sensors for home automation, etc. These physical devices generate data, pertaining to the performance of the various smart grid applications, that has to be carefully interpreted by the cyber system to minimize the human intervention and increase the automatic control of the grid. Thus, the communication networks used for information exchange play an important role in the effective operation of this system. Security of the data is another major concern that has to be taken into account while planning these networks. The aim of this special issue is to collect state-of-the-art research works being carried out on smart grid cyber physical system and its communication networks.

Topics of interest include, but are not limited to:

- Internet of Energy
- Communication networks for PMUs
- Microgrids and renewable energy sources
- Communication standards and communication protocols
- Hybrid energy systems
- Electrical vehicular networks
- Networks for smart metering infrastructure
- Integration of DGs in the smart grid CPS
- Energy management in smart grid CPS
- Internet of Things for home automation networks
- 5G for smart grid CPS
- Wireless sensor networks for smart grid CPS
- Vehicle to Grid (V2G) communication

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Deadlines of the special session:

Full paper submission (maximum 6 pages):	June 4, 2021
Notification of acceptance:	August 15, 2021
Final submissions due:	September 3, 2021

All the instructions for paper submission are included at the conference website.
<https://gpecom.org/2021/guidelines/>