Special Issue

Smart IoT System for Renewable Energy Resource-2nd Edition

Message from the Guest Editors

Renewable energy resources are used as distributed generation (DG) units and installed near to where the energy is converted and consumed. Further, the integration of renewable energy sources at home is very important. IoT helps smart grids to support various network functions throughout the generation, distribution, and consumption of energy by incorporating IoT devices (such as sensors, actuators, and smart meters), as well as by providing the connectivity, automation, and tracking for such devices. The scientific areas of interest include, but are not limited to:

- cloud computing
- smart electric meters
- smart power analyzers
- smart grids
- smart meter networks
- monitoring of renewable energy power plants: photovoltaic solar energy, wind energy, hydroelectric energy, biomass energy, and other renewable energy resources
- distributed generation
- efficient smart electrical energy
- monitoring of storage energy system: batteries, supercapacitors, fuel cells, etc.
- monitoring electrical vehicles
- wireless technologies: Wi-Fi, LoRa, ZigBee, Bluetooth, NB-IoT, etc.
- LPWAN electrical networks

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