Special Issue

Smart Grid and Information Technology

Message from the Guest Editor

Smart grids are inherently multidisciplinary. Information Technology plays a key role in realizing smart grids. As a complex cyber-physical system, a smart grid system gathers data from sensors, performs local computations, exchanges field information through industrial IoT, delivers status information to a center and actuation commands back to field devices via middleware, protects data by security mechanisms, mass-processes big data, predicts the future by machine learning algorithms, provides RESTful services for management and customer benefit, to mention only a few from the endless list of applications of information technology in smart grid. This Special Issue invites articles on efforts in realizing smart grid systems and related cutting-edge energy systems utilizing information technologies. The domains of information technology and its application in smart grids include, but are not restricted to:

- Communications and networking
- Data modeling
- Sensing and sensor fusion
- Big data
- Security and Privacy
- Machine Learning
- Blockchain and energy trading systems
- Distributed

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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