Special Issue

Advancements for Large Scale Adoption of Smart-Inverters

Message from the Guest Editors

Smart inverters are envisioned as the enabling technology for the reliable, sustainable, and cost-effective integration of renewable energy sources and energy storage into power systems. This Special Issue aims to discuss the main advancements of smart inverter design, control, and operation. In addition, this Special Issue addresses the cybersecurity aspects of such systems as well as technoeconomic analysis of power systems with high penetration of smart inverters. The topics of interest include, but are not limited to:

- Cybersecurity of Internet-of-Things-based smart inverters
- Technoeconomical analysis of power systems with smart inverter
- Advanced control architectures using smart inverters
- Advanced smart inverter grid support functions
- Modeling of smart inverters for power system dynamic studies
- Design and operation of smart inverters
- Smart inverter functions and features for power system state estimation

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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.

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