Special Issue

Intelligent Energy Management of Electrical Power Systems

Message from the Guest Editor

The smart grid implementation is facilitated by microgrids development. Microgrids are considered the main smart grid building blocks. Whether they are AC or DC, high voltage or low voltage, high power or small power, or integrated into the distribution system or the transmission network, microgrids always require an intelligent energy management that is integrated in the power system. A comprehensive intelligent energy system is aimed at providing overall energy efficiency with regard to the following: increased power generation flexibility, improved energy consumption, reduced CO_2 emission, improved stability, and minimized energy cost. This Special Issue focuses on recent key theoretical and practical developments that concern the models, technologies, and flexible solutions to facilitate the following optimal energy and power flow strategies: the techno-economic model for optimal sources dispatching, real-time optimal scheduling, and real time optimization with model predictive control.

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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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