Special Issue

Recent Studies on Optimization in Electric Energy Systems

Message from the Guest Editor

New emerging optimization, operation, and control technology of electric energy systems is being rapidly developed to exploit the full potential of renewable energy sources and to meet the needs of green energy systems and a cost-effective energy supply. This Special Issue intends to develop and report new ideas and advances in energy systems, with a focus ranging from theory to their practical use. The main topics relevant to optimization in energy system include, but are not limited to, the following:

- Modeling, optimization, monitoring, optimal operation, and control of energy systems including integrated multi-energy systems, electric energy systems and power to X technology.
- A coordinated control strategy, monitoring, management and advanced economic optimal schedulingof energy systems.
- Resilience, stability, and reliability of energy systems.
- AI, machine learning, deep learning, Data science, big data, digital signal process applications and algorithms in energy systems.
- Modelling, optimization, and control of regional energy systems with high penetration of electric vehicles and hydrogen subsystem.
- Optimization and management for an energy market equilibrium.

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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