Special Issue

Machine Learning and Optimization with Applications of Power System

Message from the Guest Editor

In this Special Issue, new theoretical and/or practical research results using machine learning and optimization techniques with the application of power systems are solicited. Pilot programs and field tests considering regional requirements are also welcome. The preferred topics include, but are not limited to: Energy data analytics and forecasting Deep learning (RNN, LSTM, CNN, etc.) for load and renewable generation prediction Deep reinforcement learning for stochastic control ESS operation considering uncertainty, frequency regulation, demand response, and/or battery degradation Demand response Energy bidding and game theory in renewable energy markets Pilot programs and field tests Microgrid optimization and simulator development Optimal power flow in distribution networks Virtual power plants

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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