Special Issue

Advanced Machine Learning Applications in Modern Energy Systems

Message from the Guest Editors

Optimization in sustainable energy systems is necessary for sustainable development. This Special Issue will consider various important factors, such as minimizing performance costs and environmental pollution and increasing sustainability and reliability. The uncertainty modeling of input parameters should also be considered in this problem. The purpose of this Special Issue is to provide an opportunity for researchers to present new machine learning methods in sustainable modern energy systems in order to decrease the performance cost and environmental pollution and increase the sustainability and reliability. Topics of interest include, but are not limited to:

- The application of machine learning in the energy, water, and food nexus;
- Uncertainties modeling of stochastic parameters in energy systems;
- Load demand forecasting in smart cities;
- Electricity price forecasting in modern energy markets;
- Electric vehicles load demand forecasting in order to schedule in smart grids;
- Integrated natural gas and electric networks;
- Sustainable development;
- Techno-economic evaluation of energy systems.

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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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