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Advances in Machine Learning Applications in Modern Energy System

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Message from the Guest Editors

Dear Colleagues,

Energy systems are designed in diverse ways depending on the field of application. Further requirements, like environment impact or energy awareness, are also considered, which led to a transformation of the design into more complex systems such as smart grids, renewable energy systems or building management systems. Many machine learning methods exist, ranging from neural networks, deep learning, and ensemble models to hybrid solutions that attend to the problems present in these complex systems. The application in energy systems can provide additional features to make them more effective; for instance, a better knowledge of the system, support decisions for an effective energy management or early fault detection. Topics of interest for publication include, but are not limited to:

- Energy estimation;
- Prediction models;
- Energy system modeling;
- Load forecasting;
- Condition monitoring;
- Energy disaggregation;
- Fault detection;
- Optimization;



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Guest Editors

Special Issue



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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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