Special Issue

Advances in Machine Learning Applications in Modern Energy Systems: 2nd Edition

Message from the Guest Editors

Energy systems are designed in diverse ways depending on their field of application. Further requirements, like environment impact or energy awareness, can also be considered, as they transform the design into more complex systems such as smart grids, renewable energy systems, and building management systems. This transformation involves changes in technology, providing more resources for energy management and also challenges for many research activities.

Several components are included in these systems to facilitate the collection of energy data, and the current computation capabilities make machine learning applications capable of handling and extracting information from data successfully. 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. Topics of interest for publication include, but are not limited to, the following:

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

Guest Editors

Dr. Daniel Pérez-López

Suppress Research Group, Escuela de Ingenierías, Universidad de León, 24007 Leon, Spain

Dr. Fernando Sánchez Lasheras

Department of Mathematics, Faculty of Sciences, Oviedo University, Calle Leopoldo Calvo Sotelo 18, 33007 Oviedo, Spain



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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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