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Advances in Machine Learning Applications in Modern Energy System

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

Deadline for manuscript submissions:
closed (3 June 2024)

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;

Dr. Daniel Pérez-López
Dr. Fernando Sánchez Lasheras
Guest Editors

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Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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