Special Issue

Modelling and Simulation of Smart Energy Management Systems

Message from the Guest Editor

Artificial intelligence approaches are attractive for the modelling and simulation of energy systems. National electricity markets, energy utilities, climate–energy policy makers and electronic, electrical and mechatronic engineers employ optimizations to improve energy systems and possibly, develop ways to integrate renewable energies into the grid to provide both optimal energy security and also the environmentally-friendly and sustainable operation of the national energy market. Artificial intelligence algorithms are implemented in power management to utilize renewable energies such as solar, wind and hydropower. This Special Issue focuses on the modelling, analysis, design and the implementation of such systems with advanced algorithms, recent theoretical developments, novel applications, target case studies, extensive reviews and discussion on machine learning for energy forecasting, and renewable energies in grids and decision systems designed for a smart energy management platform with advancing big data techniques. We welcomes original and high quality submissions in the modelling and simulation of real energy systems that build a responsive management platform.

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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