Special Issue

Machine Learning Prediction Models in Energy Systems

Message from the Guest Editors

This Special Issue is devoted to the latest advancements in prediction models used in energy systems. We invite scientists from around the world to contribute to developing a comprehensive collection of papers on the progressive and high-impact realm of prediction models and diagnostics methods for energy applications. Novel algorithms, new applications, comparative analysis of models, case studies, and state-of-the-art review papers are particularly welcomed. Very recently, prediction models have been fundamentally revolutionized thanks to affordable computational power, big data technologies, efficient data handling, pre-processing methods, and most importantly, intelligent learning algorithms. Novel machine learning methods, hybrids, ensembles, and deep learning methods integrated with intelligent optimization, various soft computing techniques, and/or advanced statistical methods are rapidly emerging to deliver models with higher accuracy. Today, prediction models are becoming essential in modelling, handling, and diagnosing energy systems with a growing widespread popularity...

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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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