Special Issue

Artificial Neural Network in Engineering

Message from the Guest Editors

System modeling, especially non-linear, is an undoubted area in which artificial neural networks are most applicable, owing their position to good approximation abilities, a relatively low computational complexity and ease of implementation. In recent years, there has been a demand for modeling systems related to renewable energy. Therefore, using artificial neural networks, energy consumption is forecasted, solar irradiance is predicted, energy efficiency of buildings is optimized and much more. This Special Issue focuses on the use of artificial neural networks in the modeling of non-linear systems and fault diagnosis and their use in renewable energy systems such as wind turbines and photovoltaic panels. Both theoretical and experimental work and, especially, the combination of these are welcome.
Keywords:

- non-linear system modeling
- system fault diagnosis
- renewable energy
- intelligent control
- health monitoring
- industrial and software application

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Deadline for manuscript submissions

closed (10 August 2023)

Energies

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Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/104499

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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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