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Artificial Neural Network in Engineering

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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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Message from the Editor-in-Chief

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