Special Issue

Artificial Intelligence in Prognostics and Health Management of Renewable Energy System

Message from the Guest Editors

Currently, with advances in sensor technology and signal processing, artificial intelligence (AI) techniques are developing rapidly and being applied to improve accuracy and efficiency of PHM system. The objective of this Special Issue is to provide a forum for researchers and engineers to report their latest developments and advances of artificial intelligence techniques in PHM of renewable energy system, in order to early detect equipment faults, effectively monitor the health of the production, determine causes of downtime, and shorten the maintenance time and operation cost. Potential topics include, but are not limited to:

- Data collection, processing, training, validation, and maintenance decision-making in PHM;
- Emerging algorithms and techniques of artificial intelligence in PHM;
- Monitoring, fault diagnosis, and remaining useful life time prediction;
- Prognostic, health monitoring, and management of renewable energy;
- Hybrid/fusion approaches combine different data-driven methods in PHM;
- Decisions condition-based maintenance related to safety, ensuring adequate inventory and product life extension.

Guest Editors

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Prof. Dr. Ahmed Al-Durra

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Deadline for manuscript submissions

closed (30 June 2023)

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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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