Special Issue

Condition Monitoring, Fault Diagnosis and Fault-Tolerant Control for Wind Turbines

Message from the Guest Editors

Wind turbines are dynamical systems with a high degree of nonlinearity and stochastic inputs, thus indicating many challenges from the modeling point of view. The stochastic nature of wind turbine inputs complicates fault diagnosis of wind turbines. Moreover, fault-tolerant control methods offer sustainable operation over a wider range of conditions than would otherwise be expected. This Special Issue aims to explore advances and challenges in condition monitoring, fault diagnosis, and fault-tolerant control for wind turbines and other subsystems found on a wind farm. Topics of interest for publication include, but are not limited to:

- Condition monitoring;
- Fault-tolerant control;
- Fault detection, estimation, and isolation;
- Fault accommodation;
- Observer design;
- Robust control;
- Wind turbines;
- Sensor, actuator, and grid faults;

Guest Editors

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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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