Special Issue

Diagnosis and Fault Tolerant Control of Wind Energy Conversion Systems

Message from the Guest Editor

With more than half of the predicted global renewable electricity growth expected to come from wind power, wind energy conversion systems are playing a central role in the energy market. However, maximizing the availability of such complex and often remotely installed structures whilst minimizing downtime and extending the lifespan requires designing advanced control approaches capable of preventing faults from developing into failures and averting costly breakdowns and downtimes. This Special Issue focuses on recent developments in fault diagnosis and fault-tolerant control designs for wind energy conversion systems. It aims at drawing contributions in passive and active approaches, fault detection and isolation algorithms, condition monitoring techniques, fault ride through approaches, and observer designs for wind energy conversion systems.

Guest Editor

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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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