Special Issue

Fault Diagnosis in Electric Machines to Ease Predictive Maintenance

Message from the Guest Editor

Fault detection and diagnosis in electric machines and power drives is an active and multidisciplinary research field involving several skills, including machine knowledge, power electronics, signal processing or artificial intelligence, among others. Fault diagnosis allows applying predictive maintenance strategies, thus limiting the extent and consequences of the faults because the failed components can be replaced before failure. In this way, unscheduled faults and downtime are minimized, while component lifetime is maximized. This Special Issue invites contributions on the topic of fault diagnosis in electric machines based on both experimental and simulation studies. Of special interest are submissions from the fields of fault diagnosis strategies in electric machines and power drives focused to ease predictive maintenance tasks, minimizing fault occurrence and limiting the consequences of the faults. Contributions from the fields of signal processing, artificial intelligence applied to fault diagnosis in electric machines and drives, and RUL models are also welcome, including areas such as industry, automotive, and aerospace applications.

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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