Special Issue

Fault Diagnosis and Fault Tolerance Strategies for Multiphase Machines and Drives

Message from the Guest Editors

During the last decade, multiphase machines associated with multiphase inverters have become one of the main research areas for a wide range of industrial applications such as electric and/or hybrid electric vehicles, traction systems, “more-electric” aircraft, wind energy generation, and others where diagnosis, fault tolerance, and high reliability operation are key items. This Special Issue focuses on fault analysis, condition monitoring, fault-detection, and fault-tolerance techniques for multiphase machines and drives. Topics of interest include, but are not limited to:

- Fault development, analysis, and modelling
- Specialized signal processing techniques for fault detection and quantification
- Fault diagnosis and/or fault tolerance for multiphase machines
- Fault diagnosis and/or fault tolerance for multiphase power converters
- Fault tolerant systems based on control strategies and/or redundant structures.

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Deadline for manuscript submissions

closed (15 June 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/67038

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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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