

Special Issue

Early Detection of Faults in Induction Motors

Message from the Guest Editors

Induction motors are a crucial element in many industry fields, in transportation, and in the service and utility sector. Although they are considered robust machines, they are also subject to failures that, if not detected in time, can lead to catastrophic breakdowns. This can lead to increased costs for companies, unplanned production stops, destruction of facilities, or service interruptions. For these reasons, the interest of industry and academia in developing early detection systems to prevent these incipient failures from evolving into catastrophic ones has been renovated and boosted. Techniques for early fault detection would allow the implementation of predictive maintenance systems, which are an essential element of Industry 4.0. This Special Issue has therefore a broad scope, though it is focused on the induction motor. Submitted works may deal with the early detection of any type of fault in motors working in stationary or transient regimes and line- or inverter-fed. Innovative papers related to advanced signal processing techniques, machine learning, artificial intelligence, big data, and sensors will be welcome.

Guest Editors

Prof. Dr. Daniel Morinigo-Sotelo
Prof. Dr. Rene Romero-Troncoso
Prof. Dr. Joan Pons-Llinares

Deadline for manuscript submissions

closed (31 March 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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