



*energies*



an Open Access Journal by MDPI

## Early Detection of Faults in Induction Motors

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)**

### 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.



[mdpi.com/si/56121](https://mdpi.com/si/56121)

**Special** Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)