

Special Issue

Advances in Condition Monitoring of Distributed Energy Equipment and Systems

Message from the Guest Editors

With the large-scale integration of renewable energy and the electrification process on the load side, a variety of equipment with distinct characteristics, such as loads and energy storage systems, is being connected to distributed energy systems. The operational patterns of these systems are undergoing significant changes, with increasing complexity and growing challenges in coping with extreme operating conditions and disturbances.

This Special Issue aims to collate the latest developments and emerging trends in the condition monitoring of distributed energy equipment and systems, with a focus on advancements in key components and the integration of new technologies. The potential subtopics of this Special Issue include but are not limited to:

- Simulation design and modeling analysis;
- Multi-physics sensing and multi-source information fusion technologies;
- Intelligent fault identification and diagnosis;
- Lifetime prediction and remaining useful life estimation;
- Non-invasive or non-destructive monitoring;
- Applications of cloud-based monitoring platforms.

Guest Editors

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Deadline for manuscript submissions

31 July 2026



Machines

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Impact Factor 2.5
CiteScore 4.7



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).

