Special Issue

O&M and Innovative Solutions Bringing Scale and Speed to Wind Energy Engineering

Message from the Guest Editors

The current issues experienced by manufacturers and operators related to the faster-than-expected degradation of mechanical/structural components of large-scale wind turbines has put at risk significant projects and threatens the slowing down of the development of the entire sector. The main aim of this Special Issue is to put together the most up-to-date knowledge in the area to help mitigate or eliminate the mentioned problems. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Reliability centred maintenance;
- O&M and probabilistic modelling;
- Decision analysis;
- Advanced structural modelling and health monitoring;
- Component optimization and redesign options;
- Innovative designs and concepts (e.g., airborne, multirotor, X rotor);
- Use of emerging technologies (e.g., AI, additive manufacturing, digital twins);
- Load alleviation through control engineering and misalignment couplings.

We look forward to receiving your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Wind is an open access journal dedicated to disseminating rigorously peer-reviewed publications to advance knowledge and technology in wind research-related areas such as wind engineering, wind energy and wind environment. The journal brings new opportunities for actively disseminating fresh, innovative and multidisciplinary wind-related concepts and applications. It covers aspects related but not limited to meteorology; civil, mechanical, aeronautical and electrical engineering; risk analysis and economic, social and environmental impacts.

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Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 28.3 days after submission; acceptance to publication is undertaken in 6.7 days (median values for papers published in this journal in the first half of 2025).