

Special Issue

Design and Analysis of Offshore Wind Turbines

Message from the Guest Editors

This Special Issue aims to address the key challenges and enhance technologies for dynamic analysis to improve the design of OWTs, with contributions both from academia and industry. Various topics include, but are not limited to:

- Innovative concepts and technologies;
- Stochastic- and reliability-based design and analysis;
- Conceptual and detailed design;
- High-fidelity aerodynamics and hydrodynamics;
- Integrated aero-hydro-servo-elastic modeling and analysis;
- Advanced control technologies;
- Stress and strength analysis of OWTs;
- Novel conceptual studies including multi-rotor designs;
- Novel materials;
- Substructure design and analysis;
- Mooring line design and analysis;
- Rotor and blade design and analysis;
- Innovative drivetrain design and analysis;
- Numerical and experimental analysis;
- Machine learning and digital twins.

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Deadline for manuscript submissions

30 April 2025



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About the Journal

Message from the Editor-in-Chief

Designs (ISSN 2411-9660) is a peer-reviewed and open access journal which provides a unifying research framework for a wide range of engineering designs of disciplines and industrial applications, including mechanical engineering, electrical engineering, civil engineering, mechatronics, aerospace engineering, bioengineering, energy engineering, industrial engineering and manufacturing systems are of interest. We would like to invite you to contribute to the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the first half of 2024).