

Special Issue

New Fluid Mechanics Research in Wind Engineering

Message from the Guest Editors

Wind engineering brings together knowledge from various fields to describe wind behaviour and assess how buildings and individuals respond to it. Fluid mechanics provides the fundamental tools needed to capture the subtle and complex structure of the wind. The unsteady and turbulent nature of wind and the complexity of solving the Navier–Stokes equations for any boundary and initial conditions in a wide range of fluid domains still represent a challenge. This Special Issue aims to aggregate and publish original findings contributed by researchers worldwide on fluid mechanics applied to wind engineering. Its focus aligns with the broader scope of the journal, which covers wind characteristics and modelling, wind and the environment, climate-wind energy interactions, and wind loading and its effects on structures. By addressing the complexities of wind flows, turbulence, and related fluid dynamic phenomena, this Special Issue will advance knowledge in such core areas. Authors are invited to submit manuscripts exploring fluid mechanics applications relevant to wind engineering, both in practical and theoretical contexts.

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

High Visibility:

indexed within ESCI (Web of Science), Scopus, and other databases.

Journal Rank:

CiteScore - Q2 (Engineering (miscellaneous))

Rapid Publication:

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).