

Special Issue

Wind Engineering Under the Second-Generation Eurocode for Wind Actions: Scientific Developments, Validation Methods, and Engineering Applications

Message from the Guest Editors

This Special Issue focuses on the scientific basis, validation, and practical implementation of the revised Eurocode for wind actions. It invites contributions examining how second-generation provisions can be interpreted, tested, and applied through wind tunnel experiments, CFD, full-scale measurements, probabilistic modelling, and engineering case studies for buildings and civil infrastructure. Its scope includes wind climate and exposure, terrain and topographic effects, pressure and force coefficients, structural dynamics, national calibration, and comparisons between code predictions and observed or simulated behaviour. The purpose is to provide a focused forum linking advances in wind engineering research with robust validation and usable design procedures, supporting confident implementation of the new code in practice. The issue also encourages studies identifying where the revised provisions perform well and where further refinement may be needed for complex urban environments, non-standard structures, serviceability assessment, and digitally enabled design workflows.

Guest Editors

Dr. Jennifer Keenahan

School of Civil Engineering, University College Dublin, Dublin, Ireland

Dr. Rubina Ramponi

Arup Dublin, Dublin, Ireland

Deadline for manuscript submissions

30 June 2027



Wind

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.5



mdpi.com/si/282456

Wind
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
wind@mdpi.com

[mdpi.com/journal/
wind](https://mdpi.com/journal/wind)





Wind

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.5



[mdpi.com/journal/
wind](https://mdpi.com/journal/wind)



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.

Editor-in-Chief

Prof. Dr. Horia Hangan
Department of Mechanical and Manufacturing Engineering, Ontario
Tech University, Oshawa, ON L1G 0C5, Canada

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 23.7 days after submission; acceptance to publication is undertaken in 9.6 days (median values for papers published in this journal in the first half of 2026).