Special Issue

Wind Loads on Buildings and Structures

Message from the Guest Editor

In recent years, wind-related disasters have occurred frequently all over the world, causing significant casualties, property damage, and economic loss. It is said that such extreme weather events will occur more frequently in the future due to global warming. In order to mitigate such wind disasters, especially their influence on buildings and structures, it is necessary to develop more reasonable wind-resistant designs and construction methods. For this purpose, it is important to establish reasonable methods for evaluating the wind loads and wind-resistant performances of buildings and structures. With remarkable developments in computational technology, various methods have been developed in recent years, e.g., large-scale testing facilities, computational fluid dynamics (CFD), database-assisted design, neural networks, and machine learning. This Special Issue publishes current, high-quality papers investigating the wind loads, the wind-induced responses, and the wind-resistant performances of buildings and structures.

Guest Editor

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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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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).