



wind

an Open Access Journal by MDPI

Wind Loads on Buildings and Structures

Guest Editor:

Prof. Dr. Yasushi Uematsu

Department of Architecture and
Building Science, Tohoku
University, Sendai 980-8579,
Japan

Deadline for manuscript
submissions:

31 May 2025

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.



mdpi.com/si/117849

Specialissue