Special Issue

Wind Load Effects on High-Rise and Long-Span Structures: 2nd Edition

Message from the Guest Editor

I am pleased to advertise the second edition of our Special Issue dedicated to “Wind Load Effects on High-Rise and Long-Span Structures”. In this Special Issue, we recognize the need to enhance structural resilience against a single hazard and multiple hazards involving wind, via better load assessment methods, structural response, methods and techniques. In recent times, we witness the evolution of novel design frameworks that enable establishing load–system–response equivalences that are applicable to natural events that have traditionally coexisted in parallel. As talented visionary researchers push the boundaries towards the generation of new novel and original technologies for upgrading disaster preparedness and response, we contribute to enhance safety and reliability in engineering. In this Special Issue, we will accept technical and non-technical approaches to estimate wind loading/wind–structure interactions in single events and in combination with separate hazards, via classical and novel theories and methods, including through forensic analysis and the scrutiny of case studies.

Guest Editor

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closed (30 April 2026)

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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