

Special Issue

Wind Resistance of Long-Span Bridges and High-Rise Buildings

Message from the Guest Editors

Over the past few decades, extreme events—for example, synoptic and non-synoptic strong winds—have been responsible for a large amount of severe structural damage and economic loss in many parts of the world. The structures become more susceptible to the action of strong winds with an increase in the span or height of those flexible structures, such as long-span bridges and high-rise buildings. Therefore, it requires a refined wind-resistant design to ensure the safety of flexible structures. To improve the wind-resistant design, we need to clarify the effect of strong winds on the structures, including the flow-structure interaction, wind loading, wind-induced vibration, and efficient control strategy. This Special Issue aims to collect submissions on the recent numerical and experimental advances in the wind-resistant design of bridges and building structures.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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