Special Issue

Wind Effects of Civil Structures: Identification, Control and Optimization

Message from the Guest Editors

Wind-sensitive structures are easily susceptible to vibration or even damage under strong winds. Over the past few decades, numerous studies have been carried out to advance the understanding of wind load characteristics. However, the wind–structure interaction is complicated in nature, and the information regarding the wind-induced effect on structures is still limited, particularly for non-stationary, non-Gaussian and unsteady winds. Due to the development in construction technology and materials, structures are becoming more flexible, and wind is often considered as a dominant factor in the structural design. It is therefore essential to further investigate the wind-induced effect on various buildings and structures, and, more importantly, to diagnose the effectiveness of different optimization measures to enhance the structural design from an aerodynamic perspective. We are sincerely looking forward to your submissions, and to compiling a Special Issue representing the growing community of scientists involved in studying the wind effects of civil structures: identification, control and optimization.

Guest Editors

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Deadline for manuscript submissions

closed (28 November 2023)

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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