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Structural Wind Engineering

Guest Editor:

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Message from the Guest Editor

Wind-structure interaction is a hot topic in the field of civil engineering. This, along with the effects of climate change, has stimulated designers' interest in lightweight structures. Open spaces, large spans and new materials necessitate a light structure sensitive to wind and its dynamics. However, few software programs permit the calculation of the wind-structure interaction through dynamic and geometrical nonlinear analyses. Thus, researchers and designers have computed subroutines and analytical models to investigate this relationship. In addition, determining wind-structure interaction requires experimental tests in wind tunnels or fluid dynamic simulations to estimate loads and predict wind streamlines. However, as these methods are time-consuming and require complex calculation, few have taken this approach. Papers on large-span roofs, bridges, high-rise buildings, nonstructural elements, comfort analyses, code update proposals and analytical models are welcome in this Special Issue, Structural Wind Engineering.



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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.

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