Special Issue

Advances on Wind Engineering and Aerodynamics

Message from the Guest Editors

In recent decades, an increasing number of civil structures have required an aerodynamic design to evaluate and study their static and dynamic behaviours under wind excitation. In particular, slender structures with innovative shapes and non-conventional façades have required numerical and experimental studies to achieve the indications given by standards. Studies performed on recent structures can provide examples to follow for innovative research in wind engineering. In particular, some topics that can be considered very topical in terms of both experimental and numerical aspects include:

- Wind loads on façades
- Long-span bridge aerodynamic behaviour
- High-rise building aerodynamic behaviour
- Wind effects on roofs
- Atmospheric modelling for civil applications
- Field measurements and health monitoring
- Urban flow dispersion modelling
- Wind environment/human comfort

Guest Editors

Dr. Sara Muggiasca

Department of Mechanical Engineering, Politecnico di Milano, 20156 Milano, Italy

Dr. Tommaso Argentini

Department of Mechanical Engineering, Politecnico di Milano, Milan, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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