Special Issue

Computational Fluid Dynamics in Wind Engineering

Message from the Guest Editors

The use of computational and numerical methods in wind engineering problems is known as Computational Wind Engineering (CWE), and Computational Fluid Dynamics (CFD) are a major contributor in this regard. CWE covers a wide scope of topics such as: pedestrian level wind comfort (PLW), pollutant dispersion, wind energy harvesting, wind loads on buildings, and fluid–structure interaction (FSI). Applications of CFD in the field of wind engineering have gained traction in the recent past, especially due to improved modelling techniques and the rapid development of computational hardware. These improvements have enabled CFD to be used as a tool not only for research purposes but also practical engineering design. Thus, the aim of this Special Issue is to collect manuscripts that demonstrate the effective use of CFD in any of the CWE topics mentioned. In particular, submitted papers must contain some form of practical application of CFD that can be adopted in practical engineering design and must be validated through experiments.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2022)

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