Special Issue

Advances in Computational Wind Engineering and Wind Energy

Message from the Guest Editors

Computational wind engineering (CWE) is the application of computational methods to wind engineering problems. Computational fluid dynamics (CFD) has constituted the major part of CWE, which is widely used in the research concerned with fluid flow in civil engineering. CWE has increasingly become an essential branch in the field of wind engineering. In this Special Issue, we invite the researchers to publish original research and review papers on the advances in CWE, including, but are not limited to:

- atmospheric and pollutant dispersion;
- big data application to wind engineering;
- bluff body aerodynamics;
- bridge aerodynamics;
- computational methods for wind-related experiments;
- micro and meso-scale meteorology model development;
- model quality assurance;
- wind energy and applications;
- wind environment;
- wind hazard assessments;
- wind loading;
- wind-induced human comfort;
- wind-related disaster assessment;
- wind-structure interactions

Guest Editors

Dr. Bowen Yan

Dr. Jinhui Yan

Dr. Chao Li

Dr. Chaorong Zheng

Prof. Dr. Xiao Li

Deadline for manuscript submissions

closed (15 July 2023)

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Atmosphere
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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About the Journal

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

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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