Special Issue

Measurement, Analysis, Modeling and Prediction of Strong Winds in Atmospheric Boundary Layer

Message from the Guest Editors

This Special Issue calls for papers that can shed light onto the measurement, analysis, modeling and prediction of strong winds in the atmospheric boundary layer. The topics of interest for this Special Issue include, but are not limited to, the following:

- The wind measurement from conventional and novel sensors (e.g., anemometer, scanning Lidar, Radar, dropsonde, satellite and optical fiber);
- The analysis of wind data with advanced signal processing techniques and statistics;
- The characterization of strong winds with consideration of climate change;
- The modeling of strong wind events with data-driven, physics-based or hybrid approaches;
- The short-term and/or long-term forecasting of strong winds;
- The uncertainty quantification and propagation in the predictability of strong winds;
- The simulation of strong winds in conventional and novel wind tunnels.

Guest Editors

Dr. Teng Wu

Dr. Reda Snaiki

Dr. Haifeng Wang

Deadline for manuscript submissions

closed (10 February 2022)

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Atmosphere
Editorial Office
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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