Special Issue

Aviation Meteorology: Current Status and Perspective

Message from the Guest Editors

Aviation safety and efficiency are both impacted by the weather. It is a significant factor in flight disruptions, delays, and, in the worst instances, crashes. Wind shear is an important aspect of aviation safety because it can drastically alter aircraft lift during takeoff and landing, putting everyone on board in danger. It is caused by microbursts from thunderstorms, temperature inversions, and surface obstructions, and has a negative impact on the efficiency of airport operations. Analysis of such weather conditions is of the utmost importance from a safety standpoint. Articles in this Special Issue cover a wide range of topics related to aviation meteorology and aviation safety. The latest developments in numerical simulation as well as statistical and AI modeling of various aspects concerning aviation meteorology will be included in this section. We also hope that the Special Issue will serve as an important reference point for researchers investigating airport operational aspects and civil aviation safety.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2023)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/163926

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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

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