Special Issue

Weather Impacts on Uncrewed Aircraft

Message from the Guest Editors

Advanced Air Mobility (AAM) seeks to bring safe, accessible, affordable, and automated aerial services and transportation for cargo and passengers. The aircraft participating in this new air transportation system span from small multirotors to larger uncrewed aircraft (UA) that transport people. Most of these operations will take place between the surface and 1500 m above the ground, i.e., typically within the atmospheric boundary layer (ABL), and span both urban and rural areas. This Special Issue aims to bring together the considerations that must be given to UA design and flight operations due to the wide variety of anticipated weather conditions for AAM operations. We welcome submissions that consider the wide variety of weather impacts and considerations, including, but not limited to:

- Aircraft design;
- Aircraft flight test;
- Sensor development and testing;
- Weather forecasting;
- Weather forecasting products;
- Environmental characterization;
- Mission planning;
- Measurement platforms of opportunity.

Guest Editors

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Prof. Dr. Joachim Reuder

Deadline for manuscript submissions

closed (18 February 2025)

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About the Journal

Message from the Editor-in-Chief

Drones is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.
There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

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