



drones



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Weather Impacts on Uncrewed Aircraft

Guest Editors:

Dr. Kevin Adkins

College of Aviation, Embry-Riddle
Aeronautical University, Daytona
Beach, FL 32114, USA

adkinsk@erau.edu

Prof. Dr. Jamey Jacob

Unmanned Systems Research
Institute, School of Mechanical
and Aerospace Engineering,
Oklahoma State University,
Stillwater, OK 74078, USA

jamey.jacob@okstate.edu

Prof. Dr. Joachim Reuder

Geophysical Institute and Bergen
Offshore Wind Centre, University
of Bergen, N-5007 Bergen,
Norway

joachim.reuder@uib.no

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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. Although this is a portion of the atmosphere that traditional manned aircraft have quickly passed through during ascent and descent, this is a new environment for sustained aviation operations, and one that is characterized by highly variable meteorological conditions and high levels of atmospheric turbulence. Consequently, flight conditions can change dramatically across very short temporal and spatial scales. Exacerbating this challenging environment are the use of aircraft with lower mass, moment of inertia, thrust, and speed, thus making them extremely sensitive to their ambient environment.



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Special Issue



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Editor-in-Chief

Prof. Dr. Diego González-Aguilera

Cartographic and Land
Engineering Department, Higher
Polytechnic School of Avila,
University of Salamanca, Hornos
Caleros, 50 05003 Avila, Spain

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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Contact Us

Drones
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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