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Unmanned Aerial Vehicles in Atmospheric Research

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Deadline for manuscript submissions:
closed (20 February 2024)

Message from the Guest Editors

We are pleased to invite you to submit manuscripts to a MDPI *Drones* Special Issue on “Unmanned Aerial Vehicles in Atmospheric Research”.

The ever-expanding range of drone applications observed in recent years is also taking place in the field of atmospheric research. The increasing availability and reliability of these platforms opens new opportunities in the study of various processes occurring in the planetary boundary layer and at the interface between the Earth's surface and atmosphere. These studies allow us to fill the gap between surface measurements and methods, enabling the observation of atmospheric profiles at higher altitudes (aircraft, LIDAR, satellite observations). Additionally, the acquisition of surface images from relatively low altitudes allows us to drastically increase the resolution of these images and develop downscaling methods for satellite products. On the other hand, the availability of a variety of low-cost sensors that allow the measurement of trace gas or pollutant concentrations opens opportunities for the development of methods to identify the emission sources of these components and estimate their emission rates.

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Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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