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Unmanned Aerial Vehicles in Atmospheric Research

Guest Editors:

Dr. Miroslaw Zimnoch
Department of Applied Nuclear Physics, Faculty of Physics and Applied Computer Science, AGH-University of Science and Technology, 30-059 Kraków, Poland

Dr. Paweł Ćwiąkała
Department of Engineering Surveying and Civil Engineering, AGH University of Science and Technology in Kraków, 30-059 Krakow, Poland

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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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 Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/drones
drones@mdpi.com
𝕏@Drones_MDPI