Special Issue

Drones in Hydrological Research and Management

Message from the Guest Editors

The use of drones in hydrological research and management is transforming the way of monitoring water bodies and managing water resources. Drones equipped with a range of sensors, from cameras to LiDAR and multispectral imaging systems have emerged as powerful tools for collecting high-resolution spatial and temporal data, enabling researchers and stakeholders to gain deeper insights into complex water systems with greater efficiency and cost-effectiveness compared to conventional methods, such as manual data collection. The potential of drones extends to a wide range of hydrological applications, such as flood monitoring and disaster response, tracking changes in the water body ecosystem, calibrate and validate hydrological models, analyze sediment transport, and many other applications. Drones enable to collect data efficiently by the means of time and human-power even in the regions that are hard or dangerous to reach. Fast and easy data collection provides an opportunity to collect data frequently, detect and identify changes, and therefore make timely and sustainable decisions for water resource, risk, or disaster management.

Guest Editors

Dr. Dalia Calneryte

Dr. Robert Szczepanek

Prof. Dr. Jarosław Chormański

Deadline for manuscript submissions

28 February 2026

Drones

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

mdpi.com/si/229108

Drones
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
drones@mdpi.com

mdpi.com/journal/drones

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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.

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

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