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

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About the Journal

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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