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Advances of Unmanned Aerial Vehicles in Hydrology

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Deadline for manuscript submissions:
closed (16 October 2023)

Message from the Guest Editors

Over the past few decades, the development of drones has revolutionized the field of hydrology. Hydrology no longer always relies on a combination of in situ ground-based measurements and remote sensing satellite data or airborne data from manned aircraft. This Special Issue aims to gather UAV applications of different technologies and methods in order to provide cost-effective hydrologic monitoring, assessment, and modeling.

We invite researchers in hydrology to contribute original research papers, review articles and empirical studies which will stimulate debate in the topic. Potential topics include, but are not limited to, the following:

- Channels' geomorphological mapping, monitoring and analysis;
- Coastal and deltas surveying;
- Flood monitoring and analysis;
- Image-based velocimetry;
- Multispectral sensors and water indices;
- River stage and water depth;
- Thermal cameras and algal blooms;
- UAVs on hydrologic engineering;
- UAV-based sensors for water pollution.

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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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