Special Issue

Drones for Topographic Mapping

Message from the Guest Editors

Unmanned Aerial Systems (UASs) have the ability to collect many and highly-overlapping images with great ease, this, along with advances in Structure from Motion (SfM) image processing software, have made it straight forward for a researcher to create orthophotos and Digital Surface Models (DSM). Previously complex and expensive laser scanning systems were required to create 3D point clouds of a study area. Now UAS DSMs can provide high resolution DSM datasets, there are important differences that must be considered. This Special Issue of *Drones* seeks to find the research that addresses questions such as; What can really be achieved with this type of data? What are the limitations? What level of accuracy is required for temporal comparison? Can DSMs be used to create accurate hydrological models? What sort of real world questions can be addressed UAS DSMs? How are best topographic results achieved? The publication of a set of quality papers in the area of drone based topographic modelling will explore the potential for drones to provide data at an unprecedented level of detail.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2018)

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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

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