

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 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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