Special Issue

Resilient UAV Autonomy and Remote Sensing

Message from the Guest Editors

With the development of aerial imaging, oblique photogrammetry, laser scanning techniques and unmanned aircraft systems (UAVs), accurate and efficient perception, the reconstruction and recognition of large-scale 3D scenes have become popular topics in the fields of photogrammetry and computer vision. However, there are still several problems that need to be urgently solved, such as a low processing efficiency, difficulty to render the details of objects, and poor robustness of dense 3D reconstructions for poor-textured and occluded areas. Motivated by this rapid development, we are excited to invite you to submit a research paper to this Special Issue of Drones titled" UAV Image and LiDAR Processing". The UAV data, including primarily UAV image and LiDAR data, has been widely used in aerial surveillance, 3D reconstruction and visualization, autonomous driving, and smart cities. This Special Issue aims to promote the further application of the UAV data, specifically in the fields of instance segmentation, object detection/tracking, SLAM, SFM, MVS, 3D mesh surface reconstruction, etc.

Guest Editors

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Deadline for manuscript submissions

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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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