Application of UAS in Construction

Guest Editors:

Dr. Sungjin Kim
Department of Architectural Engineering, Hanbat National University, Daejeon 34158, Korea

Dr. Javier Irizarry
School of Building Construction, Georgia Institute of Technology, 280 Ferst Dr., Atlanta, GA 30332, USA

Deadline for manuscript submissions:
28 October 2024

Message from the Guest Editors

Unmanned aircraft systems (UASs), commonly called "drones", have been widely used in the construction jobsite. The UAS can help managers to make decisions more efficiently by flying over the site and collecting and transferring visual data. Since UASs can carry various sensors (e.g., camera, GPS, Lidar), they can provide various types of visual data through pre-/post-data processing (e.g., image processing or computer vision techniques). Since UASs produce visual data, they can be integrated with other technologies (e.g., robots, augmented/virtual realities) or building information modeling (BIM) for enhancing the level of autonomy, productivity, efficiency, and safety in the construction environment.

In this context, this Special Issue invites research papers demonstrating innovative developments in applying UASs to construction management tasks. Papers are welcome in the field of computer vision and image processing with UASs, navigation systems, integrating with the BIM, simulations, and decision making and process mapping with the UAS in any type of construction domains (e.g., road, bridge, buildings).

Special Issue

Editor-in-Chief

Prof. Dr. Diego González-Aguilera

Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50, 05003 Avila, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.
Journal Rank: JCR - Q2 (*Remote Sensing*) / CiteScore - Q1 (*Aerospace Engineering*)

Contact Us