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UAS for Protecting the Historical Built Environment: Monitoring, Damage Detection, and Diagnostics of Heritage Infrastructure Supported by Aerial Systems

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Deadline for manuscript submissions:

closed (31 October 2023)

Message from the Guest Editors

The recent progress of unmanned platform manufacturing, the increasing miniaturization of sensing payloads, and the decreasing cost of integrated microelectronics have gradually allowed the implementation of UASs for aerial and aerial-supported integrated surveys for cultural heritage structures. This Special Issue invites research papers demonstrating innovative developments in applying UASs to survey, digitize, study, and monitor the historical built environment. Contributions may cover, but are not limited to:

- Three-dimensional documentation of historical buildings, building complexes, infrastructure, and urban centers using or supported by UAS devices for data collection;
- Inspection, multitemporal monitoring, and damage detection of critical heritage infrastructures using UASs;
- Multi-sensor and multiplatform recording and data integration using or supported by UASs;
- Color cameras, thermographic cameras, multispectral cameras, hyperspectral cameras, LiDAR, SLAM-enabling mobile scanners for condition assessment in cultural heritage by means of UASs;
- UAS flight planning and control for built heritage mapping;
- Intelligent UAS-based solutions for built heritage surveys.



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Special Issue



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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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