



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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Message from the Editor-in-Chief

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