

Special Issue

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

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.

Guest Editors

Prof. Dr. Fulvio Rinaudo
Dr. Giulia Sammartano
Dr. Efsthios Adamopoulos

Deadline for manuscript submissions



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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.

Editor-in-Chief

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