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Towards Intelligent Digital Heritage: From Latest Digital Survey Techniques to Advanced 3D Data Analytics and Use

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Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editors

The goal of this Special Issue is to collect papers to give insights about these trends of digital cultural heritage preservation and understanding, exploring one of the three main aspects (survey, data analytics, and data fruition) or all of them, describing exceptional case studies, and presenting issues, possible solutions, and future developments.

This Special Issue will welcome manuscripts that link the following themes:

- Low-cost sensors and open-source algorithms for terrestrial 3D modelling;
- Research in 3D/4D survey and modelling;
- Image matching, Multi-View Stereo (MVS) and 3D reconstruction;
- Point cloud processing, semantic enrichment, and analysis;
- NeRF and Gaussian splatting 3D reconstruction and modelling;
- Semantic and AI methods in terrestrial 3D reconstruction problems;
- Virtual and augmented reality for complex architectures and heritage;
- Investigations in BIM for cultural heritage (HBIM);
- Data sharing platform for architectural 3D models.



Specialsue