3D Reconstruction in Cultural Heritage Conservation through Range-Based and Image-Based Techniques

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Message from the Guest Editors

Three-dimensional (3D) datasets acquired by different sensors and by integrating the outputs allow the production of 3D models. Furthermore, through the use of multi-sensors, it is possible to describe three-dimensionally architectural elements of different complexity as well as in any historical urban context.

This Special Issue aims to analyse the possible uses of three-dimensional (3D) datasets for the elaboration of digital models in order to reproduce, with adequate accuracy, existing cultural heritage. Starting from a survey carried out with active or passive sensors or integrating different acquisition techniques, topics may range from Scan to H-BIM and Scan to FEM approaches for the management and analysis of CH assets, to the realisation of Digital Twin at the building and urban scale for the valorisation of existing architecture.

Articles may cover, but are not limited to, the following topics:

- Scan to BIM;
- Scan to FEM;
- 3D Modelling;
- Digital Twin;
- Historical mapping at urban scales;
- G.I.S. and 3D City Model;
- Rapid mapping;
- Active and/or passive sensors;
- Multi-sensor geospatial analyses.

Special Issue

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Message from the Editor-in-Chief

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