3D Indoor Mapping and BIM Reconstruction

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

Digital reconstruction of buildings and infrastructure is being extensively researched. The resulting enriched BIM and GIS models of built assets are becoming increasingly important for facility management, project planning, and refurbishment. Typically, point cloud data or photogrammetric inputs are used to reconstruct the digital assets in the built environment. This requires the unsupervised interpretation of the scenery and the automated parameter extraction for the widely varying domain-specific objects. In the last few years, there has been intense research activity towards the automated modeling of BIM/GIS. However, there is still important work to be done. This Special Issue welcome submissions that cover but are not limited to the following:
Geometric evaluation of mapping systems;
Indoor data structures and models;
Scan-vs-BIM and building change detection;
Automated data analysis of 3D data (segmentation, classification, etc.);
Indoor reconstruction;
Scan-to-BIM standards (e.g., IFC);
Scan-to-GIS standards (e.g., CityGML);
Multi-dimensional model representations (4D, 5D, etc.);

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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