



Applications of Laser Scanning and Photogrammetry in Civil Engineering and Architecture: Beyond 3D Modeling

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Message from the Guest Editors

Dear Colleagues,

At present, terrestrial laser scanning and photogrammetry are geomatics surveying techniques very widely applied in civil engineering and architecture. The final output of such terrestrial or aerial techniques is a dense cloud of millions (billions?) of points, often obtained from a suitable and non-trivial integration. At the end of the processing workflow, the modeling procedures can produce “surface” or “object” models. The second modeling approach, well known as “scan-to-BIM”, deals with still open problems and requires interventions from the users. Emerging and open themes of the Special Issue could be optimal integration among systems (UAV and terrestrial data, laser scanner and image/video photogrammetry) and with thermal multi-hyperspectral sensors; suitable integration of geomatic and material data for HBIM applications; metrological analysis of geomatic data for restoration projects; and exploitation of finite elements method (FEM) structural analysis using BIM models.

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