



Digital 3D Reconstruction in Urban Culture Heritage Conservation Using Remote Sensing

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Message from the Guest Editors

3D digital technologies have become increasingly important, not only because they are now an integral part of everyday life but also because they make information more easily accessible. In fact, the technological innovation allows not only digital reconstruction but even the superimposition and connection of information on urban heritage combining and comparing data from different sources, to support the interpretation of our legacy in the process of current urban transformation. Inter- and cross-disciplinary research applied to our urban heritage is essential for achieving results and creating 3D digital products that, through this interaction and thanks to the fundamental spatial dimension of data correlation, can express their cognitive and educational potential for public use.

This SI aims to collect papers that discuss the progress in the geometric and semantic generation of 3D urban heritage models, ranging from data collection and processing to 3D object identification, modeling and reconstruction, and including their spatial representation, visualization and management in a GIS/HBIM environment.





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