

Special Issue

3D Indoor Mapping and BIM Reconstruction

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 welcomes 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.);

Guest Editors

Dr. Maarten Bassier

Dr. Florent Poux

Dr. Shayan Nikoohemat

Prof. Dr. Maarten Vergauwen

Deadline for manuscript submissions

closed (30 November 2022)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/70344

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



About the Journal

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)