Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Dr. Domenica Costantino

Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica, Polytechnic University of Bari, Via E. Orabona 4, 70125 Bari, Italy

Dr. Vincenzo Saverio Alfio

Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica, Polytechnic University of Bari, Via E. Orabona 4, 70125 Bari, Italy

Deadline for manuscript submissions

closed (15 August 2025)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/200157

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

mdpi.com/journal/remotesensing

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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)

MDPI