

Special Issue

3D Modelling from Point Cloud: Algorithms and Methods

Message from the Guest Editors

This Special Issue focusses on algorithms and methods related to 3D models, defined as mathematical representations of surfaces of objects in three-dimensional Euclidean space. Although the methodology and software for the processing of remotely sensed point clouds has matured considerably throughout the last decade, numerous challenges remain, related, for example, to:

- Difficult measurement environments;
- The fusion of heterogeneous data;
- Large-scale 3D point clouds;
- Accommodation of outliers;
- Spatio-temporal correlations;
- High-accuracy modeling; and
- Modeling of new or complex kinds of phenomena/objects

We therefore welcome novel algorithms and methods

- That take special data characteristics
- Which utilize approaches from disciplines
- For surface reconstruction, pattern recognition, image classification and segmentation, crowd sourcing, feature extraction, SAR interferometry, etc.
- Solve a real-world problem in a scientific application

Guest Editors

Dr. Boris Kargoll

Institute of Geoinformation and Surveying, Department of Architecture, Facility Management and Geoinformation, Anhalt University of Applied Science, Seminarplatz 2a, 06846 Dessau-Rosslau, Germany

Dr. Hamza Alkhatib

Geodetic Institute, Faculty of Civil Engineering and Geodesy, Leibniz University Hannover, Nienburger Str. 1, 30167 Hannover, Germany

Deadline for manuscript submissions

closed (31 March 2021)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/44907

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)