Special Issue

Point Cloud Processing with Machine Learning

Message from the Guest Editors

This Special Issue aims to show the advantages and limitations of different ML algorithms (including deep learning) in point cloud processing (e.g., objects classification, segmentation, detection, visualization, and modeling) for various fields of applications, such as object modeling, visualization, feature extraction, digital twins solutions, scan-to-BIM, infrastructure (e.g., building, transportation, road-corridor) monitoring, robotics, autonomous driving, forest monitoring, environment, and smart agriculture.

- Object classification, segmentation, detection, monitoring, and change detection in road environment, transportation (e.g., tunnels and bridges), and buildings
- Object detection, classification, and scene perception for autonomous vehicles and robots.
- Estimation of metrics of forest inventories, such as individual tree height, diameter of breast height, and stem and canopy modeling
- Feature extraction for point cloud processing in various applications of city modeling, as well as environmental and agricultural monitoring
- Multiple sensors (LiDAR, optical sensor, IMU, etc.,) modeling and cross-modality integration.
- Deep learning-based methods for SLAM systems

Guest Editors

Dr. Abdul Awal Md Nurunnabi

Dr. Meida Chen

Dr. Yan Xia

Prof. Dr. Felicia Norma Rebecca Teferle

Deadline for manuscript submissions

closed (25 November 2024)



an Open Access Journal by MDPI

Impact Factor 4.2 CiteScore 8.3



mdpi.com/si/188121

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

mdpi.com/journal/

remotesensing





an Open Access Journal by MDPI

Impact Factor 4.2 CiteScore 8.3



MDPI

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 peerreview 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)