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Point Cloud Processing with Machine Learning

Guest Editors:

Dr. Abdul Awal Md Nurunnabi

Dr. Meida Chen

Dr. Yan Xia

Prof. Dr. Felicia Norma Rebecca Teferle

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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

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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

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.

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Contact Us

Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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remotesensing@mdpi.com
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