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Point Cloud Processing with Machine Learning

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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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Message from the Editorial Board

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