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Advances in Understanding and 3D Semantic Modeling of Large-Scale Urban Scenes from Point Clouds

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

Driven by many applications and the improvement of 3D data acquisition technology, computer vision, and remote sensing communities are now focusing on deep learning-based and knowledge-based algorithms to tackle the challenges in understanding and 3D semantic modeling of large-scale urban scenes.

We position our Special Issue to support the ongoing efforts in 3D scanning and modeling industry and applications of LiDAR/RGB-D/photogrammetric point clouds. The topics of this Special Issue include, but are not limited to:

- Enhancement, registration, filtering of point clouds;
- Semantic, instance, panoptic, and part-level segmentation;
- Large-scale outdoor scene and indoor scene reconstruction;
- Detail synthesis and implicit modeling of urban scenes;
- 3D modeling of buildings, bridges, roads, trees, and utilities;
- Rendering and visualization of urban scenes;
- Polyhedral meshes, procedural models and model simplification;
- Innovative applications in smart cities, VR/AR, autonomous driving, indoor navigation, etc.

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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.

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