Special Issue

Semantic Segmentation Algorithms for 3D Point Clouds

Message from the Guest Editors

Semantic segmentation often represents a core part of the point cloud processing workflow. As such, it is currently a hot topic in fields like remote sensing, photogrammetry, and computer vision. The identification of the different elements composing a 3D scene is a challenging task due to the numerous possible scenarios and data types. In this context, there is still a lack of generalisable solutions for all distinct scales and scenarios since the semantic definitions differ according to the considered domain. This Special Issue encourages authors to submit research articles, review articles, or application-oriented reports on the following topics (but not limited to):

- Machine/Deep learning algorithms for point cloud semantic segmentation;
- Instance segmentation;
- Integration of knowledge-based rules within/after the learning process;
- Benchmarking;
- Problems and solutions when dealing with imbalanced classes in a training dataset;
- Generalisation and transferability;
- Interpreting, explaining, and visualising deep learning;
- Best/new loss functions when training deep learning neural networks.

Guest Editors

Dr. Eleonora Grilli
Dr. Florent Poux
Dr. Martin Weinmann

Deadline for manuscript submissions

closed (30 June 2023)

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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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