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Navigation and Object Recognition with 3D Point Clouds

Guest Editors:

Prof. Dr. Linyuan Xia
School of Geography and Planning, Sun Yat-sen University, Guangzhou 510275, China

Dr. Ting On Chan
School of Geography and Planning, Sun Yat-sen University, Guangzhou 510275, China

Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

A 3D point cloud is a 3D coordinate point arranged in a regular grid, which is usually generated by a 3D scanner or photogrammetry software, that can represent a 3D shape or object. It is generally used for visualization, animation, rendering, and mass customization applications.

In the processes of UAV remote sensing image monitoring and automatic driving, high-resolution positioning and the identification of objects are required to obtain more information. Three-dimensional point cloud technology can accurately measure the position and shape of objects in three-dimensional space, which has become a hot topic in recent years. There are five steps: namely, the collection point cloud data, feature extraction, segmentation, classification, and visualization. The processing of 3D data is more complex, so many studies will also use hybrid algorithms combined with this technology. This Special Issue aims to study object positioning and recognition based on 3D point clouds, focusing on applications and not being limited to a particular field. Authors are encouraged to submit relevant research articles or review articles on the above-mentioned topics.

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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