3D Modelling from Point Cloud: Algorithms and Methods

Guest Editors:

Dr. Boris Kargoll

Institute of Geoinformation and Surveying, Department of Architecture, Facility Management and Geoinformation, Anhalt University of Applied Science, Seminarplatz 2a, 06846 Dessau-Rosslau, Germany

Dr. Hamza Alkhatib

Geodetic Institute, Faculty of Civil Engineering and Geodesy, Leibniz University Hannover, Nienburger Str. 1, 30167 Hannover, Germany

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Message from the Guest Editors

This Special Issue focusses on algorithms and methods related to 3D models, defined as mathematical representations of surfaces of objects in three-dimensional Euclidean space. Although the methodology and software for the processing of remotely sensed point clouds has matured considerably throughout the last decade, numerous challenges remain, related, for example, to:

- Difficult measurement environments;
- The fusion of heterogeneous data;
- Large-scale 3D point clouds;
- Accommodation of outliers;
- Spatio-temporal correlations;
- High-accuracy modeling; and
- Modeling of new or complex kinds of phenomena/objects

We therefore welcome novel algorithms and methods

- That take special data characteristics
- Which utilize approaches from disciplines
- For surface reconstruction, pattern recognition, image classification and segmentation, crowd sourcing, feature extraction, SAR interferometry, etc.
- Solve a real-world problem in a scientific application

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Special Issue

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

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