



Modelling and Monitoring of Landscapes: 3D Reconstruction and Scene Analysis from Remote Sensing Images

Guest Editors:

Dr. Mattia Previtali

Department of Architecture, Built Environment and Construction Engineering, Politecnico di Milano, Via Giuseppe Ponzio, 31, 20133 Milano, MI, Italy

mattia.previtali@polimi.it

Dr. Branka Cuca

Politecnico di Milano, Department of Architecture, Built Environment and Construction Engineering, Via G. Ponzio, 31, Milano, Italy

branka.cuca@polimi.it

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Message from the Guest Editors

This Special Issue focuses on presenting the latest advances in satellite image analysis, mainly dealing with scene analysis and 3D reconstruction. Image segmentation and classification, extraction of object features, machine learning and Artificial Neural Networks (ANN) are revolutionizing the semantic analysis of satellite data even if some issues are still pending on the portability of the learned features and accuracies with data other than the ones used in the training step. In a similar way, optical and microwave sensors allow for 3D reconstruction with a level of detail unforeseeable a few years ago. However, the accuracy of the derived model and their combination with other products derived by lightweight drones is still not fully solved. For these reasons specific focus of the call are the following: i) classification accuracy analysis, ii) integration between satellite classification results and other geospatial data sources and products, iii) combination of 3D products obtained from different platforms (e.g., UAV/airborne LiDAR).

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