



3D Reconstruction and Data Analysis: Cutting-Edge Techniques for Terrestrial and Marine Environments

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Message from the Guest Editors

This volume is focused on cutting-edge approaches and technologies for 3D reconstruction, visualisation, data collection and analyses on derived 3D models, and high-resolution topography and bathymetry.

This volume covers, without being limited to, the following techniques: Radar, LiDAR; terrestrial laser scanner (TLS); the photogrammetry and multibeam echosounder system (MBES)—performed on both manned and unmanned vehicles; the structure from motion technique applied to unmanned aerial vehicles (UAV or Drone); remotely operated underwater vehicles (ROV); field or underwater activity; 3D reconstruction and dense cloud analysis; merging of 3D points cloud with classical digital terrain models, derived from different techniques; virtual reality and other innovative methods; and examples of the practical use of such methods highlighting challenges and criticism.





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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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