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Applications of Full Waveform Lidar

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Deadline for manuscript
submissions:

closed (30 April 2019)

Message from the Guest Editor

Dear Colleagues,

LiDAR Full-waveform (FW) systems allow for the registration of the complete wave as the energy pulse interacts with the object. This is particularly relevant in forest environments, since they are able to capture continuous information from the top of the canopy to the ground. Currently, the main use of LiDAR FW is focused on forest applications, where new methods for forest ecology management, forest structure characterization, fuel variables mapping and quantifying understory vegetation using LiDAR FW are under development. However, other applications have also benefited from using this technology, such as land use/land cover urban and agricultural classification, topographic modelling or archaeological prospection.

The purpose of this Special Issue is to bring the state-of-the-art in LiDAR FW applications with different system types, in the development of new processing methods, algorithms and tools, and in the integration of LiDAR with other sensors and data sets to optimize its performance. Review papers and research contributions are both welcomed.

Prof. Luis A. Ruiz
Guest Editor



mdpi.com/si/17051

Special Issue



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