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Laser Scanning for Quantifying Sustainable Forest and Agriculture Management

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Message from the Guest Editors

Technological advancements of laser, scanning electromechanics, GPS/IMU, and vehicle platforms have realized a wide variety of laser scanning systems, ranging from satellite, airborne, unmanned aerial vehicles (UAVs), and unmanned ground vehicles (UGVs) to single-person backpack, hand-held, and even pads. Point clouds and waveforms collected from some of these systems have been utilized and proven their value for forestry and agricultural management, while other systems require further study to unleash their full potential. Novel algorithms are also sought to expedite information extraction from the ever-growing data volume.

This Special Issue aims at studies covering different uses of laser scanning systems in agricultural and forest sciences. Topics include but are not limited to an investigation of the characteristics of various laser scanning systems, such as point density, penetration, intensity values, case studies to derive forest structures or single tree parameters and to estimate crop yield, and algorithm development to handle large volumes of data based on artificial intelligence or machine learning techniques.



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Special Issue



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Message from the Editor-in-Chief

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