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LiDAR Remote Sensing for Forestry

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Forests are essential to maintaining ecological function, biodiversity and the health of the planet. To better investigate forest resources and promote the study of tree growth mechanisms, it is urgent to obtain more accurate and timely forest inventory information. In recent decades, with continuous improvements made to the measurement accuracy and sampling rates of laser scanners, LiDAR has been widely employed for calculating tree metrics (e.g., height, diameter at breast height (DBH), crown width), estimating above-ground biomass (AGB), and identifying tree species remotely. Nonetheless, existing studies continue to encounter the challenges of low accuracy or low robustness across different forest environments. Thus, it is important to focus on the latest studies addressing forest inventory using LiDAR technology.

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