



Application of Laser Scanning Technology in Forestry

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Message from the Guest Editors

Dear Colleagues,

Recent advances in laser scanning technologies provide accurate and direct 3D in situ information on plant community structures. The spatially explicit digitization of forests has revolutionized how we monitor and quantify ecosystem attributes and functions. Early applications of laser scanning in forestry aimed to derive traditional forest inventory attributes, then evolved to biophysical variables, and currently also included ecosystem processes and modelling. This Special Issue aims to collect new applications and innovative data processing methods that use laser scanning technologies for forest science and management. The scope of the Special Issue covers but is not limited to the following aspects:

- Fusion of forest point clouds from different platforms;
- Innovative data processing methodologies in satellite, airborne, UAV, mobile and terrestrial laser scanning;
- Forest inventory using laser scanning;
- Deriving forest biophysical parameters;
- 3D modeling of forest structures;
- Forest change detection;
- Susceptibility to disturbances.





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