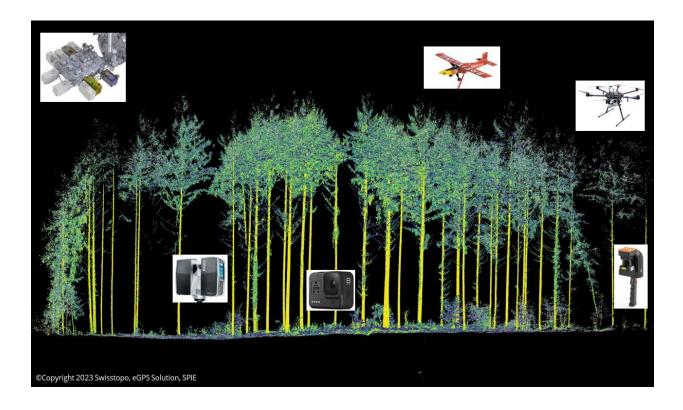
Swiss Federal Institute for Forest, Snow and Landscape Research WSL Zuercherstrasse 111 8903 Birmensdorf Switzerland



Remote Sensing Lectures "Point clouds for forest applications"

WED 10 May 2023, 9-12 am CET



The advent of LiDAR enabled the acquisition of 3D point clouds in forests and a detailed 3D analysis of forest parameters at different scales. In this webinar we will have five in-house and five external presentations from renowned institutes. Besides state-of-the-art applications in forests, new methods, techniques, and processing of 3D point clouds from ALS, TLS, MLS, and close-range photogrammetry will be given.

Zoom link: sent by email (a few days before the webinar)

Sc	h	e	d	u	le	:

- **9:00** Lars Waser, Remote sensing group, WSL Welcome, Introduction
- **9:10 Felix Morsdorf**, University of Zurich, Remote Sensing Laboratories, EXT 4D point clouds towards physically-based monitoring across scales
- **9:25 Stefano Puliti**, Norwegian Institute of Bioeconomy Research NIBIO, EXT *Deep learning for dense LiDAR data in forestry applications*
- **9:40 Moritz Bruggisser**, Remote sensing group, WSL Countrywide characterization of forest edge structure from airborne laser scanning data
- **9:55** Lisa Mandl, Technical University Munich, EXT

 The potential of GEDI to characterize mountain forest structure across scales
- **10:10 Hristina Hristova**, Scientific Service NFI, WSL Spherical Stereo Videogrammetry for Point Cloud Generation in Forest Environment

~10:25 Coffee break

- **10:40 Kim Calders**, Ghent University, EXT Digital twins for understanding forest disturbances and recovery from space
- **10:55 Daniel Kükenbrink**, Remote sensing group, WSL How robust is mobile laser scanning for forest inventory applications a Swiss case study
- **11:10 Nataliia Rehush**, Scientific Service NFI, WSL

 A sensor-agnostic approach for tree position and DBH retrieval from 3D close-range remote sensing data
- **11:25 Aline Bornand**, Scientific Service NFI, WSL *TLS point clouds for individual tree volume estimation*
- **11:40 Henrik Persson**, Swedish University of Agricultural Sciences SLU, EXT *Proximate forest remote sensing using radar*

11:55 Closing

See you there! Lars Waser