



ROSEWOOD
4.0 Sustainable Wood
for Europe

FINT-CH

In the project FINT-CH a methodology for the large-scale characterization of forest structures, thereon a better detection of single trees on the basis of remote sensing data, is under development. Top height, cover and mixture ratio get determined.

In the project FINT-CH a methodology for the large-scale characterization of forest structures, thereon a better detection of single trees on the basis of remote sensing data, is under development. By using segmentation, stand boundaries and the corresponding top height, cover and mixture ratio get determined. This forms the basis for the specific single tree detection using forest structures. Large-scale geodata with valuable forest information can be generated. Their usage in practice are demonstrated on the basis of four examples. Vector-geodata (type polygon) with stand boundaries and the following attributes:

- Basic shape (uniform, unequally)
- Top height (hdom)
- Cover ratio
- Mixture ratio

- Stem number of upper-class trees
- Basal area of upper-class trees
- the following attributes:
 - Top height
 - BHD
 - Social status in the upper-class
 - Z-trees

Vector-geodata (type polygon) with forest gaps, boundaries and aisle

The methodology should be able to get a simple and large-scale investigation every 5 to 10 years regarding the mentioned data attributes mentioned beforehand. With these attributes conclusions are possible regarding stem numbers of different classes, protective forest investigations, mapping of forest gaps, boundaries and aisle as well as on stock estimations and finally operational planning (allowable cut, activity planning...)

PIÙ DETTAGLI

SFIDA RISOLTA	DOMINIO	TIPO DI SOLUZIONE
2. Migliorare le infrastrutture e le capacità degli attori pubblici	Inventario, la valutazione, il monitoraggio La gestione forestale, selvicoltura, i servizi ecosistemici, resilienza Ricerca e sviluppo	I sensori, apparecchi di misura
PAROLE CHIAVE	SOLUZIONE DIGITALE	INNOVAZIONE
Remote sensing data; monitoring; Detection; Software	Sì	Sì
PAESE D'ORIGINE	SCALA DI APPLICAZIONE	INIZIO E FINE ANNO
Svizzera	Nazionale	--

CONTATTI

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REFERENCES AND RESOURCES

SITO PRINCIPALE	RISORSE
https://www.bfh.ch/hafl/en/	--
SITO WEB DEL PROGETTO	
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PROGETTO DI RIFERIMENTO	
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PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood 4.0

DATA DI INSERIMENTO

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

