

FINT-CH (Find Individual Trees Switzerland)



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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...)

Vector-geodata (type points) with detected single trees and

The

VIAC INFORMÁCIÍ

RIEŠENÁ VÝZVA

2. Zlepšiť infraštruktúru a kapacity verejných aktérov

DOMAIN

Inventarizácia, posudzovanie,
monitoring/monitorovanie
Lesné hospodárstvo/hospodárska úprava lesa,
pestovanie lesa, ekosystémové služby, odolnosť
Výskum a vývoj

TYP RIEŠENIA

Senzory, meracie prístroje/meracie vybavenie

Kľúčové SLOVÁ

Remote sensing data; monitoring; Detection;
Software

DIGITALNE RIEŠENIE

áno

INOVÁCIE

Áno

KRAJINA PôVODU

Švajčiarsko

ROZSAH APLIKÁCIE

Národný

ZAČIATOK A KONIEC ROKA

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KONTAKTNÉ ÚDAJE

VLASTNÍK ALEBO AUTOR

BFH Bern University of Applied Sciences
Luuk Dorren
luuk.dorren@bfh.ch
<https://www.bfh.ch/hafl/en/>

REPORTÉR

BFH Berne University of Applied Sciences
Moritz Dreher
moritzkaspar.dreher@bfh.ch

REFERENCES AND RESOURCES

HLAVNÁ WEBSTRÁNKA

<https://www.bfh.ch/hafl/en/>

ZDROJE

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PROJEKTOVÁ WEBSTRÁNKA

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REFERENCIA PROJEKTU

PROJEKT, V RÁMCI KTORÉHO BOL TENTO INFORMAČNÝ PREHĽAD VYTVORENÝ
Rosewood 4.0

DÁTUM ODOSLANIA
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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

