

# FINT-CH (Find Individual Trees Switzerland)



## 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... )

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

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## MÁS DETALLES

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### RETO ABORDADO

2. Mejorar las infraestructuras y la capacidad de los agentes públicos

### DOMINIO

Inventario, evaluación, seguimiento  
Gestión forestal, silvicultura, servicios  
ecosistémicos, resiliencia  
Investigación y desarrollo

### TIPO DE SOLUCIÓN

Sensores, equipos de medición

### PALABRAS CLAVE

Remote sensing data; monitoring; Detection;  
Software

### SOLUCIÓN DIGITAL

Sí

### INNOVACIÓN

Si

### PAÍS DE ORIGEN

Suiza

### ESCALA DE APLICACIÓN

Nacional

### AÑO DE INICIO Y FIN

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## DATOS DE CONTACTO

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### PROPIETARIO O AUTOR

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## REFERENCES AND RESOURCES

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### SITIO WEB PRINCIPAL

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

### RECURSOS

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### SITIO WEB DEL PROYECTO

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### REFERENCIA DEL PROYECTO

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PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood 4.0

FECHA DE MENSAJE

12 Ago 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

