



Master-Thesis

Tree classification and counting using machine learning methods with multispectral aerial images

About Ocell:

Ocell offers innovative earth observation solutions for manned and unmanned aerial vehicles. We invented a new approach for collecting aerial data with higher resolutions than satellites and for bigger areas than what drones could deliver. Ocell uses various machine learning approaches to extract valuable information from these multi-dimensional data sets.

What we want to achieve with you:

With our pilot network we generate 5-band multispectral images on several ten thousand hectares of Bavarian forests. In order to partially automate costly forest inventory, you'll develop a system for automatic tree counting and classification from this aerial imagery. You will set up the machine learning pipeline, build a model on our data and scientifically verify the ability of the system to outperform the current state of the art.

What we offer:

- Early involvement in a startup
- Self-responsible work style
- Access to large data sets
- Guidance and support

What we expect:

- Motivation and technical adeptness
- Programming experience - Python/TF
- Experience in machine learning
- Scientific thinking

If you are interested please contact us: info@ocell.aero

Gefördert durch:



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des Deutschen Bundestages

