YI WANG

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WORK EXPERIENCE

01/10/2020 – 31/03/2021 – Munich, Germany

STUDENT ASSITANT – German Aerospace Center (DLR), Remote Sensing Technology Institute

3D building reconstruction

- main tasks: multi-task cGAN for DSM refinement, semantic segmentation and 3D building vectorization

04/2020 – 07/2020 – Stuttgart, Germany

INTERN – Sony Stuttgart R&D Center, Perception System Group

Radar based localization and mapping for autonomous driving

- main tasks: point cloud based landmark extraction, scan matching (NDT) and graph-based SLAM

11/2019 – 02/2020 – Stuttgart, Germany

STUDENT ASSITANT – University of Stuttgart, Institute for Navigation

GNSS software development

- main task: implement GNSS positioning algorithms with error correction models

EDUCATION AND TRAINING

10/2018 – CURRENT – Stuttgart, Germany

MASTER OF SCIENCE IN GEOMATICS ENGINEERING – University of Stuttgart

- Computer Vision (structure from motion, 3D reconstruction)
- Pattern Recognition (probabilistic machine learning, deep learning)
- Remote Sensing Technologies (hyperspectral camera, lidar, radar)
- Signal Processing & Statistical Inference
- Satellite Positioning and Inertial Navigation

1.3/1.0 Rank 1/15

09/2014 – 06/2018 – Wuhan, China

BACHELOR OF SCIENCE IN REMOTE SENSING – Wuhan University

- Advanced Mathematics, Linear Algebra, Probability theory & Physics
- Object oriented Programming (C/C++, python, Matlab)
- Data structures and Algorithms
- Remote Sensing sensors and techniques
- Computer Vision and Pattern Recognition (image processing, computer graphics & machine learning theories)

86/100 Rank 8/53 | Thesis: Building extraction from airborne RGB images using deep learning methods

PUBLICATIONS

Spatial distribution and temporal variation of aerosol optical depth and radiative effect in South China and its adjacent area

https://doi.org/10.1016/j.atmosenv.2018.06.028 – 2018
Data mining and analysis of important atmospheric properties from a large temporal and spatial scale.

HONOURS AND AWARDS

2017

Honorable Mention in MCM (Mathematical Contest In Modeling) – Consortium for Mathematics and Its Applications

In this contest we proposed a design of highway toll plazas, establishing several models to stimulate the process of the vehicles driving throughout the toll plazas and work out the best design plans.
https://github.com/wangyi111/MCM-2017