Jie Yuan

https://penguinflys.github.io/penguinflys/about

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EDUCATION

Leibiniz Universität Hannover　Hanover, Germany
Master of Science in Computer Science; GPA: 3.3/4.0　Oct. 2017 – Feb. 2021

China University of Mining and Technology　Xuzhou, China
Bachelor of Engineering in geodesy and geoinformatics; GPA: 3.57/4.0 (6/157)　Oct. 2013 – July. 2017

EXPERIENCE

IPI in Leibniz University　Hanover, Germany
Research Assitant (part-time)　May. 2019 - Apr. 2020
- ○ **Object Detection**: Investigation and Research on object detection of aerial images
- ○ **Research Paper Investigation** : Collect new papers on object detection and application on aerial images

Rainbow Business Solution GmbH.　Hanover, Germany
Office Worker/Reception (part-time)　Oct. 2018 - Jan. 2020
- ○ **Office Works**: Run the daily business by calling, answering and arranging meetings, organizing files, paying bills, fixing computers, routers and printers.

IKG in Leibniz University　Hanover, Germany
Labor Mentor (part-time)　Apr. 2018 - Apr. 2019
- ○ **Labor Supervision**: Help the students on a labor on poles detection with point cloud data.
- ○ **Result Examination**: Check the result of labor and homework

IKG in Lebiniz University　Hanover, Germany
GUI Programmer for HD Mapping system (part-time)　Feb. 2018 - Sep. 2018
- ○ **GUI Design**: Design multiple interfaces under tabs for different threads with Qt5 library.
- ○ **Multi Threading**: Configuration of front end and back-end process in multiple tabs.
- ○ **Sensor Data IO**: Automatic data transferring from sensors to HD mapping system.
- ○ **Scene Visualization**: Visualization of a fused 3D scene of point cloud and binocular camera.
- ○ **Algorithm Adaptation**: Adapt some new research algorithms to the mapping system.

Zhonghong Geodesy Technology Research Institute　Changzhou, China
surveyor　Jan. 2017 - July. 2017
- ○ **Survey Plan Design**: Estimation of surveying accuracy and feasibility & Design of surveying schedule
- ○ **Result Adjustment**: Adjustment of the GPS antenna collected data & Surveying result report.

PROJECTS

- **Digital Earth with Web Map Service**: Icosahedron densification with grid technique visualizing large scale 3d map
- **LEGO Courier Simulation**: SLAM techniques on LEGO Robot in a scenario of a delivering task
- **Dynamic Landmark based Visual Odometry(SFM)**: Motion reconstruction with feature points matching in RANSAC framework on stereo cameras
- **Object Tracking and Motion Prediction via KFs.**: Preceding cars motion prediction via Kalman filterings
- **Real-time HD Map Rectification with Multiple Lidars**: Point cloud rectification for accurate mapping system
- **Sensor fusion based on Set-membership KF**: Research project on trajectory optimization with SKF
- **PanUrban Dataset**: Semi-automatic conversion from ISPRS 2D semantic dataset to PanUrban dataset
- **Panoptic Segmentation in urban Area**: Unifying segmentation tasks on aerial images in urban area

SKILLS

- **Programming Languages**: C++, Python, Matlab, etc.
- **Tools**: CMAKE, ROS, PCL, OpenCV, OpenGL, Pytorch, MS Office, ArcGIS
- **Speaking Languages**: English(C1), German(B2-C1), Chinese(C2).