Qi Fang

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Education

Beijing University of Posts and Telecommunications 2018/09 – Present

Undergraduate Computer Science and Technology

Work Experience

XPeng Motors, Autonomous Driving Center 2020/12 - Present

Internship Autonomous Driving Testing

Participate in Automated Valet Parking(AVP) related tests

- Develop HIL simulation tools and build simulation test scenarios
- Build tools to extract and analyze autonomous driving test data in automation
- Design and validation of specific Corner-cases

China Life, R&D Center 2020/07 - 2020/09

Internship Computer Vision

Interned in the AI department (Computer Vision), OCR

- Fine-tuned the text detection neural network in detecting text boxes
- generated datasets to train models suitable for the insurance industry
- implemented post-processing, error correction and structured extraction of recognition results

Research Experience

Intelligent Driving Laboratory (iDLAB) , Tsinghua University 2020/09 - Present

Research Assistant Internship Automated Driving, Ergonomics

Study drivers' performance in taking over from autonomous driving under different traffic flow/traffic location/driver fatigue conditions

- Investigate takeover experimental designs and evaluation metrics
- Design experimental scenarios, building evaluation approaches for different traffic locations and processing data

Publication

1. Qingkun Li, Andrej Naumenko, **Qi Fang** *et al*. **Influence of the Relative Position of Surrounding Traffic on Drivers′ Take-Over Performance** [AHFE 2021] (Oral)

Skills

- Programming language: Proficiency in **C/C++/Python**, knowledge of JAVA/C# and have related project experience. Familiar with statistical software packages (SPSS)
- Development: Skilled in developing in Linux and proficient in using **Git** and **ROS**, familiar with **PCL** and point cloud processing process
- Others: Familiar with common deep learning algorithms and models, experience in **Pytorch**.

Miscellaneous

- Very strong interest in Point Cloud, 3D Object Detection, Reinforcement Learning, End-End Autonomous Driving