Jinghang Li

bit.ljh@gmail.com | +8618811775068

EDUCATION

Beijing Institute of Technology (BIT) 09/2018- 07/2021

- **Master of Engineering** in Mechanical Engineering Earned in 07/2021
- **GPA**: 3.48/4.0 The 1rd and 2rd Grade Academic Scholarships

China Agricultural University (CAU) 09/2014- 07/2018

- **Bachelor of Engineering** in Vehicle Engineering Earned in 07/2018
- **GPA**: 3.33/4.0 The 3rd Grade Academic and 2nd Grade Innovation Scholarships
  The Honor of Outstanding Graduation Project by CAU

PUBLICATIONS

- **Li J.**, Lu C., Xu Y., et al. Manifold Learning for Lane-changing Behavior Recognition in Urban Traffic. **IEEE ITSC, 2019.** [PDF]
- Zhang Z., Lu C., **Li J.**, et al. Prediction of Pedestrian Risky Level for Intelligent Vehicles. **IEEE IV, 2020**. [PDF]
- Li Z., Lu C., Gong C., Gong J., **Li J.**, et al. Driver Behavior Modelling at the Urban Intersection via Canonical Correlation Analysis. **IEEE ICUS, 2020**. [PDF]
- **Li J.**, Lu C., Li P., et al. Driver-Specific Risk Recognition in Interactive Driving Scenarios using Graph Representation. IEEE Transactions on Vehicular Technology. 2021. **[Under review]**. [PDF]
- Zhang Z., Wang B., Lu C., **Li J.**, et al. Prediction of Pedestrian Spatiotemporal Risk Levels for Intelligent Vehicles: A Data-driven Approach. Transportation Research Part C. 2021. **[Under review]**. [PDF]
- Li Z., Gong J., Lu C., **Li J.** et al. Personalized Driver Braking Behavior Recognition for Safety Improvement in the Car-following Scenario: A Transfer Learning Approach. IEEE Transactions on Industrial Electronics. 2022.
- **Patent**: Tan Y., **Li J**., et al. “A design of Feed Conveying Device based on Friction Drive.” NO.CN10681850
- **Patent**: Lu C., **Li J**., et al. “A graph classification-based risky scene recognition method and system.” NO.CN112487907A

RESEARCH EXPERIENCE

FAST (Field Autonomous System & compuTing) Lab, Research Assistant

Advised by Prof. Fei Gao at Zhejiang University 07/2021 - Present

- Design of single IMU Odometry based on Deep Neural Network by learning IMU biases for Quadrotor.

Research on online learning modeling method for human-like driving behavior of Intelligent Vehicles. (National Natural Science Foundation of China) 09/2018- 02/2020

Advised by Prof. Chao Lu, Prof. Jianwei Gong at BIT

- Proposed a **vehicle interaction behavior recognition system** based on manifold learning method to recognize the lane-changing behaviors of surrounding vehicles. (Accepted by **ITSC 2019** and given Oral presentation at New Zealand)
- Implemented a YOLOv3-based surrounding vehicle detection and tracking algorithm in urban driving scenarios.

Research on Decision-making Model for Urban Road Intersection Driving (SAIC Motor Industry-University-Research Collaboration Project) 09/2018- 02/2020
Advised by Prof. Chao Lu, Prof. Jianwei Gong at BIT

- Configuration and commissioning of a ROS-based data acquisition vehicle (sensors including camera, LIDAR, IMU, GPS, on-board computer) and involved in data processing, including LIDAR point cloud annotation, data decapsulation, etc.
- Proposed a pedestrian trajectory prediction and **risky human-vehicle interaction behavior recognition system** based on LSTM. (Accepted by **IV 2020**)
- Proposed a framework of **driver-specific risky scene recognition** based on the graph representation method (working paper).

Agricultural feed Conveying Robot based on Friction Drive (Innovative Training Program for College Students)
Advised by Prof. Yu Tan at CAU 11/2015- 12/2017

- **The Grand Prize** in **"Challenge Cup"** Capital University Students Extracurricular Academic and Scientific Works Competition.
- Design and implementation of a combined navigation system based on multiple ultrasonic sensors, infrared distance sensors, and wheel encoders.
- Designed and optimized the robot's mechanical structure using SolidWorks and AutoCAD, based on the optimization results, the robot was machined and assembled.

EXTRACURRICULAR ACTIVITIES

Secretary of Youth League Committee of Engineering School, CAU 09/2014- 09/2017
Counsellor, Class 171 of Vehicle Engineering Department at CAU 09/2017- 09/2018

SKILLS & OTHERS

- **Computer Skills**: Proficient in C/C++, Python, ROS, MATLAB, AutoCAD, SolidWorks, etc.