Bijun LI

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EDUCATION

Tsinghua University, Beijing, China Sep. 2015 – Present
  M.E., Department of Automation
  - Major in Control Engineering
  - Minored in Big Data Capability Improvement Project
  - Advisor: *Prof.* Kai ZHANG, *Prof.* Bokui CHEN
  - Core Courses: Digital Image Processing, Data Ming, Pattern Recognition, Big Data Analytics, Stochastic Process, Multi-Sensor Fusion Theory and Application.
  - Overall GPA: 3.3/4.0

Northwestern Polytechnical University, Xi'an, China Sep. 2011 – Jul. 2015
  B.E., School of Power and Energy
  - Major in Automation
  - Advisor: *Prof.* Sanmai SU
  - Overall GPA: 3.25/4.0 (82.5/100), Junior GPA: 3.75/4.0 (87.5/100)

RESEARCH INTERESTS

Computer Vision: Simultaneous localization and mapping, 3D Reconstruction, Stereo vision, Object recognition, Augmented Reality.
Machine Learning: Reinforcement learning, Deep learning

RESEARCH EXPERIENCE

Research Assistant Sep. 2015 – Present
  Department of Automation, Tsinghua University, China
  Advisor: *Prof.* Kai ZHANG, *Prof.* Bokui CHEN
Research Assistant Aug. 2014 – Jun. 2015
  School of Power and Energy, Northwestern Polytechnical University, China
  Advisor: *Prof.* Sanmai SU

TEACHING EXPERIENCE

Teaching Assistant
  - Fundamentals of applied information theory Tsinghua-Berkeley Shenzhen 2014

PROJECTS

1. Obstacle avoidance of logistics terminal delivery robots. (In start-up phase) Sep. 2017- Present

2. Motion control system for omnidirectional wheeled mobile robot.	Nov. 2016 – Apr. 2017
3. Visual positioning system for automated guided vehicle.	July. 2016 – Nov. 2016
4. Face gender recognition based on Convolutional Neural Networks.	Apr. 2016 – May. 2016
5. The shortest path problem based on genetic algorithm and its MATLAB implementation.	Mar. 2016 – Apr. 2016
6. Application of Support Vector Machine to forecast the direction of stock index.	May. 2016 – Jun. 2016
7. Design of Robust Controller for Aero-Engine.	Aug. 2014 – Jun. 2015
8. The design of the public bicycle service system in Xi'an Jing Kai District.	May. 2014

PUBLICATIONS

1. **Bijun LI**, Mingyao QI, Kai ZHANG, and Bokui CHEN∗, "Landmark-Based Visual Positioning System for Automatic Guided Vehicle." IEEE Cota International Conference of Transportation Professionals (**CICTP**). [Abstract Accepted].2017.

2. **Bijun LI**, Mingyao QI, Yuhan DONG, Kai ZHANG, Bokui CHEN∗. "Visual Positioning System and Motion Control Method for Automated Guided Vehicles." The Institution of Engineering and Technology (**IET**). [Submitted]. 2017.

HONORS AND AWARDS

1. "Qingfeng" Pre-scholarship, Tsinghua University	Tsinghua University	2017
2. Big data promotion project certificate	Tsinghua University	2017
3. The Third Prize Scholarship	Tsinghua University	2016
4. **The First Prize Scholarship**	Northwestern Polytechnical University (NPU)	2014
5. The First prize in Mathematical Modeling Contest	NPU	2014
6. The First prize in C language programming skills competition	NPU	2014
7. The Second prize in Digital Electronic Experiment Skill Contest	NPU	2014
8. **National Encouragement Scholarship**	NPU	2013
9. **Excellent Student Cadre**	NPU	2013
10. The Second Prize in Mathematical Modeling Contest	NPU	2013
11. The Third Prize in T-shirt Design Contest	NPU	2013

SKILLS

Programming
- Matlab, C/C++, Python, LATEX, OpenCV, Linux.