Peiliang LI

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Research Interests
Visual-inertial State Estimation, UAV navigation, Augmented Reality
Computer Vision, Machine Learning, 3D Object Detection and Tracking

Education

Hong Kong University of Science and Technology, Hong Kong, China

Ph.D., Electronic & Computer Engineering, Sep 2016 - Jun 2021 (*Expected*)

- Advisors: Prof. Shaojie SHEN

University of Science and Technology of China, Hefei, China

B.S., Electronics Science and Technology, Sep 2012 - Jun 2016

- Thesis of Bachelor: Design and Implementation of Visual-Inertial Odometry
- Advisor: Prof. Bensheng Qiu, Wei Lu

Experience

Teaching Assistant Mar 2017 - Jun 2017 & Mar 2018 - Present
Hong Kong University of Science and Technology,
ELEC 1110: Introduction to Electronic Robot Design

Teaching Assistant Sep 2017 - Dec 2017
Hong Kong University of Science and Technology,
ELEC 5660: Introduction to Aerial Robotics

Algorithm Intern Jul 2015 to Aug 2016
DJI-Innovations Ltd, Shenzhen
Moving object estimation and following, GPS-IMU fusion on mobile phone

Publications & Preprint

1. **P. Li**, T. Qin, S. Shen. "Stereo Vision-based Semantic 3D Object and Ego-motion Tracking for Autonomous Driving." *In Proc. of the European Conference on Computer Vision (ECCV), Munich, Sep, 2018.*
2. T. Qin, **P. Li**, S. Shen. "VINS-Mono: a Robust and Versatile Monocular Visual-Inertial State Estimator." *IEEE Transactions on Robotics (TR-O 2018).*
3. T. Qin, **P. Li**, S. Shen. "Relocalization, global optimization and map merging for monocular visual-inertial SLAM." To appear in *In Proc. of the IEEE International Conference on Robotics and Automation (ICRA)*, Brisbane, Australia, May 2018.
4. **P. Li**, T. Qin, B. Hu, F. Zhu, S. Shen. "Monocular Visual-inertial State Estimation for Mobile Augmented Reality." *In Proc. of the IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, pages 11-21, Nantes, France, October 2017.

Awards

Travel Awards
- ISMAR conference, Nantes, France. Oct 2017

Student Awards — University of Science and Technology of China
- The Best Creative Award for DJI Developer Challenge Feb 2015
- The first Prize for USTC Electric Design Game Oct 2014
- "Guosheng Sun" Leadership Scholarship Sep 2014
- "Li Liu" Leadership Scholarship Sep 2013
- The Runner-Up for USTC RoboGame Oct 2013