

Ziquan LAN

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EDUCATION

PH.D. (COMPUTER SCIENCE)

Aug 2013 - Jun 2019

National University of Singapore

Thesis Title: A Semantic Touch Interface for Flying Camera Photography

B.COMP. (COMPUTER SCIENCE) & B.SC. (APPLIED MATH) 1ST CLASS HONOURS

Aug 2008 - May 2013

National University of Singapore

Dean's List, for top 5 percent students in the Department of Information Systems

EXCHANGE STUDENT

Aug 2010 - Dec 2010

University of California, Riverside

NUS Award for Study Abroad (NASA) Exchange Scholarships Awards

RESEARCH INTERESTS

Robotics

interactive system, motion planning

Computer Vision

3D vision, vision for robotics

EXPERIENCE

NATIONAL UNIVERSITY OF SINGAPORE, *Research Assistance, Research Fellow*

Jul 2018 - Present

Research on a point cloud based collaborative SLAM system for a team of UAVs and UGVs

NATIONAL UNIVERSITY OF SINGAPORE, *PhD Candidate, Research Assistant*

Aug 2013 - Jun 2019

Research on an easy-to-use interactive robotic system for photo-taking using flying cameras

NATIONAL UNIVERSITY OF SINGAPORE, *Teaching Assistant*

2011 - 2018

Teach computer science courses: Design and Analysis of Algorithms (2018), Programming Methodology II (2018), Discrete Structures (2017), Robot Motion Planning and Control (2015), Software Engineering Project (2014), Interactive Systems Project (2011)

PUBLICATIONS

- Ziquan Lan, Zi Jian Yew, Gim Hee Lee, "Robust Point Cloud Based Reconstruction of Large-Scale Outdoor Scenes", in *Computer Vision and Pattern Recognition (CVPR)*, 2019
- Ziquan Lan, David Hsu, Gim Hee Lee, "Solving the Perspective-2-Point Problem for Flying-Camera Photo Composition", in *Computer Vision and Pattern Recognition (CVPR)*, 2018
- Ziquan Lan, Mohit Shridhar, David Hsu, Shengdong Zhao, "XPose: Reinventing User Interaction with Flying Cameras", in *Robotics: Science and Systems (RSS)*, 2017, **(Best Systems Paper Award)**
- Yuchen Li, Dongxiang Zhang, Ziquan Lan, Kian-Lee Tan, "Context-aware advertisement recommendation for high-speed social news feeding", in *International Conference on Data Engineering (ICDE)*, 2016
- Xiaoning Ma, Xin Yang, Shengdong Zhao, Chi-Wing Fu, Ziquan Lan, Yiming Pu, "Robots in my contact list: using social media platforms for human-robot interaction in domestic environment", in *Asia Pacific Conference on Computer Human Interaction (APCHI)*, 2012