LEI ZHOU

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EDUCATION

Hong Kong University of Science and Technology   *Sep. 2015 - Jun. 2020 (expected)*

Ph.D. candidate - The Department of Computer Science & Engineering

Advisor: Prof. Long Quan

Zhejiang University, Mainland China   *Sep. 2011 - Jul. 2015*

B.S. - College of Information Science & Electronic Engineering

GPA: 3.88 / 4.0

EXPERIENCE

Computer Vision & Graphics Lab, HKUST   *Sep. 2015 - present*

PhD Candidate   *Hong Kong*

· Advised by Prof. Long Quan

· Area: Large-Scale 3D reconstruction; Feature matching; Structure from Motion; Image Localization; Point cloud registration

  – Participating in building the online 3D reconstruction system: `https://www.altizure.com/`

Mobile Computing Group,
Intel Asia-Pacific Research & Development Ltd.   *Jul. 2014 - May 2015*

Research Intern   *Shanghai*

· Advised by Manager Haicheng Li

· Area: Android System Development

  – Designed a profiling tool monitoring mobile devices' power consumption based on process scheduling.

PUBLICATIONS

· "Learning Two-View Correspondences and Geometry Using Order-Aware Network", ICCV 2019
Jiahui Zhang, Dawei Sun, Zixin Luo, Anbang Yao, **Lei Zhou**, Tianwei Shen, Yurong Chen, Long Quan, Hongen Liao

· "ContextDesc: Local Descriptor Augmentation with Cross-Modality Context", CVPR 2019
Zixin Luo, Tianwei Shen, **Lei Zhou**, Jiahui Zhang, Yao Yao, Shiwei Li, Tian Fang, Long Quan

· "Beyond Photometric Loss for Self-Supervised Ego-Motion Estimation", ICRA 2019
Tianwei Shen, Zixin Luo, **Lei Zhou**, Hanyu Deng, Runze Zhang, Tian Fang, Long Quan

· "Learning Fully Dense Neural Networks for Image Semantic Segmentation", AAAI 2019
Mingmin Zhen, Jinglu Wang, **Lei Zhou**, Tian Fang, Long Quan

· "Learning and Matching Multi-View Descriptors for Registration of Point Clouds", ECCV 2018
Lei Zhou, Siyu Zhu, Zixin Luo, Tianwei Shen, Runze Zhang, Mingmin Zhen, Tian Fang, Long Quan

· "GeoDesc: Learning Local Descriptors by Integrating Geometry Constraints", ECCV 2018
Zixin Luo, Tianwei Shen, **Lei Zhou**, Siyu Zhu, Runze Zhang, Yao Yao, Tian Fang, Long Quan

- "Matchable Image Retrieval by Learning from Surface Reconstruction", ACCV 2018
  Tianwei Shen, Zixin Luo, **Lei Zhou**, Runze Zhang, Siyu Zhu, Tian Fang, Long Quan

- "Distributed Very Large Scale Bundle Adjustment by Global Camera Consensus", TPAMI 2018
  Runze Zhang, Siyu Zhu, Tianwei Shen, **Lei Zhou**, Zixin Luo, Tian Fang and Long Quan

- "Very Large-Scale Global SfM by Distributed Motion Averaging", CVPR 2018
  Siyu Zhu, Runze Zhang, **Lei Zhou**, Tianwei Shen, Tian Fang, Ping Tan, Long Quan

- "Progressive Large Scale-Invariant Image Matching in Scale Space", ICCV 2017
  Lei Zhou, Siyu Zhu, Tianwei Shen, Jinglu Wang, Tian Fang, Long Quan

- "Parallel Structure from Motion from Local Increment to Global Averaging", arXiv:1702.08601
  Siyu Zhu, Tianwei Shen, **Lei Zhou**, Runze Zhang, Jinglu Wang, Tian Fang, Long Quan

TECHNICAL PROFICIENCY

Programming	C/C++, Python, Java
Libraries & APIs	OpenCV, OpenGL, Caffe, Tensorflow