HUI QIAO

Ph.D Candidate (Since 2013/09)

BBNC (Broadband Network & Digital Media Lab)

MMCP (Multi-dimension & Multi-scale Computational Photography Lab)

Department of Automation, Tsinghua University, Beijing 100084, China

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EDUCATION

Sep. 2013 – Jul. 2018 (expected) Tsinghua University, Beijing, China

Ph.D. in Department of Automation, Advisor: Professor Qionghai Dai

Sep. 2009 – Jul. 2013 Tsinghua University, Beijing, China

B.E. in Department of Automation (GPA 94, Rank 1/141)

CURRENT RESEARCH INTERESTS

- □ Computational Imaging
- □ Computer Vision
- □ ToF Imaging

PUBLICATIONS

- □ **Hui Qiao**, Jingyu Lin, Yebin Liu, Matthias B. Hullin, and Qionghai Dai, Resolving transient time profile in ToF imaging via log-sum sparse regularization, Optics Letters (OL), 2015, 40(6): 918-921.
- □ **Hui Qiao**, Jiamin Wu, Xiaoxu Li, Morteza H. Shoreh, Jingtao Fan, and Qionghai Dai, GPU-based deep convolutional neural network for tomographic phase microscopy with 11 fitting and regularization, J. Biomed. Opt. (JBO), 2018, 23(6): 066003.

HONORS AND AWARDS

- □ National Scholarship, 2016
- □ Freshman Scholarship for Doctoral candidate of Tsinghua University, 2013 (Rank 1 in Department of Automation, Tsinghua University)
- □ Outstanding Graduate Student of Beijing, China, 2013
- □ Outstanding Graduate Student of Tsinghua University, 2013
- □ Friend of Tsinghua-Chang Dong Scholarship (1/141), 2012
- ☐ Friend of Tsinghua-Fang Chongzhi Scholarship (1/141), 2011
- □ "12.9 Scholarship" of Tsinghua University (1/141), 2010

SOCIAL ACTIVITIES

- □ Chairman of Zijing Volunteer Organization, Youth League Committee of Tsinghua University (Sep. 2014 Jul. 2015)
- □ President of Student Union, Department of Automation, Tsinghua University (Sep. 2012 Jul. 2013)

SKILLS

- □ Programming: Proficient in C, C++, Matlab and R
- □ Academic: Strong Optimization Background, Signal Processing, Good at Original Thinking and System Building, etc

RESEARCH PROJECTS

- □ Realizing the Depth of Field Control in Dynamic Scene. Based on Extracting Depth and Radiance from a Defocused Video Pair. 2013-2014
- □ Resolving Multipath Interference in Time-of-Flight Imaging. We Demonstrate a Method based on Log-sum Sparsity Regularization to Recover Transient Time Profiles of Specular Reflections from Multi-frequency and Multi-phase Measurements. 2014-2015
- □ Looking Around Corners and Looking Through the Scattering Media. Based on Recovering Transient Time Profiles in Time-of-Flight Imaging. 2014-2016
- □ Polarized 3D: High-Quality Depth Sensing with Polarization Cues. We Propose a Framework to Combine Surface Normals from Polarization with an Aligned Depth Map. 2015-2016

RESEARCH EXPERIENCE

Attend the **Photonics Asia** Sponsored by SPIE, the International Society for Optics and Photonics and the Chinese Optical Society (COS), October 9-11, 2014 at Beijing, China.

REFERENCES

Prof. Qionghai Dai, Department of Automation, Tsinghua University qhdai@tsinghua.edu.cn