Xiaolong ZHU

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RESEARCH INTERESTS

Multimedia, including *Image Retrieval*, *Human-Computer Interaction*;
Computer Vision, including *Gesture Recognition*, *Object Recognition*;
Machine Learning, including *Random Forest*, *Restricted Boltzmann Machine*, *SVM*.

EDUCATION

The University of Hong Kong,   Hong Kong SAR, China

Ph.D. Candidate, *Computer Science*,   Sept 2010 - present
- Adviser: Dr. Kenneth K. Y. Wong

Peking University,   Beijing, China

B.S., *Machine Intelligence*   Sept 2006 - June 2010
- Thesis Title: Segmentation and Classification of Range Image.
- *Excellent Undergraduate Thesis Award*.
- Advisor: Dr. Huijing Zhao

EXPERIENCE

Lenovo IVC Lab,   Hong Kong SAR, China

Research Intern   June 2013 - Aug 2013
- Innovated new ways for image searching.
- Designed a prototype of touch-based image retrieval system and demonstrated it to CTO.

Microsoft Research Asia,   Beijing, China

Research Intern   June 2012 - Sept 2012
- Learned HCI workflow of problem solving;
- Designed visual feedback for in-air gesture recognition.

Youdao.com,   Beijing, China

Software Engineer Intern   June 2010 - Aug 2010
- Coded web front-end of a Location-based Social Network Service;
- Cooperated with web designer and developer.

Peking University.   Beijing, China

Undergraduate Research Assistant   Sept 2008 - June 2010
- Participated in the *POSS* project, in 3D VCR Lab;
- Analyzed range data using computer vision methods.

PUBLICATIONS

[Refereed Conference Papers]

1. **Xiaolong Zhu**, Ruoxin Sang, Xuhui Jia and Kwan-Yee K. Wong. A Hand Shape Recognizer from Simple Sketches. *International Conference on Image and Vision Computing New Zealand (IVCNZ)*, 2013.

2. Xuhui Jia, **Xiaolong Zhu**, Angran Lin and Kwok-Ping Chan. Face Alignment using Structured Random Regressors Combined with Statistical Shape Model Fitting. *International Conference on Image and Vision Computing New Zealand (IVCNZ)*, 2013.

3. **Xiaolong Zhu**, Kwan-Yee K. Wong. Single-Frame Hand Gesture Recognition Using Color and Depth Kernel Descriptors. *IEEE International Conference on Pattern Recognition (ICPR)*, 2012.

4. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, **Xiaolong Zhu**, Miaomiao Liu. Self-Calibrating Depth from Refraction. *IEEE International Conference on Computer Vision (ICCV)*, 2011.

5. **Xiaolong Zhu**, Huijing Zhao, Yiming Liu, Yipu Zhao, Hongbin Zha. Segmentation and Classification of Range Image from an Intelligent Vehicle in Urban Environment. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2010.

6. Huijing Zhao, Yiming Liu, **Xiaolong Zhu**, Yipu Zhao, Hongbin Zha. Scene Understanding in a Large Dynamic Environment through a Laser-based Sensing. *IEEE International Conference on Robotics and Automation (ICRA)*, 2010.

[Journal Papers]

1. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, **Xiaolong Zhu**. Depth from Refraction Using a Transparent Medium with Unknown Pose and Refractive Index. *International Journal of Computer Vision (IJCV)*, 2012.

AWARDS
- Studentship of The University of Hong Kong, 2010-2014;
- Top 10 Undergraduate Thesis, School of EECS in Peking University, 2010;
- Wusi Scholarship in Peking University, 2009;
- Outstanding Volunteer in Beijing 2008 Olympic Games, 2008;
- First Class Honor in China Physics Olympic Games, Gansu, 2006.

TEACHING

The University of Hong Kong. Sept 2010 - Dec 2013

• Computer Programming and Applications, *Teaching Assistant*	Autumn 13
• Topic in Computer Science: Visual Analysis, *Teaching Assistant*	Autumn 13
• Computer Vision, *Tutor*	Autumn 12
• Computer Programming and Applications, *Teaching Assistant*	Autumn 11
• Computer Programming and Applications, *Tutor*	Autumn 10

TECHNICAL SKILLS
- Programming in: `Matlab`, `C/C++`, `JaveScript/HTML/CSS`;
- Basic Experience in: `Python`, `Objective-C`, `Processing`, `UNIX Shell Scripting`;
- Native Mandarin speaker, fluent in English, little Japanese and Cantonese;
- Operating Systems: Mac OS X, Microsoft Windows.

SOCIAL ACTIVITIES
- Member of Information Technology Committee, The University of Hong Kong, 2012-2014;
- IT Officer of Postgraduate Association (PGSA) in The University of Hong Kong, 2011-2013;
- Volunteer as Media Assistant for Journalists in Games of the XXIX Olympiad, 2008.