Weichao Qiu

Updated: November 1, 2016
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Education

2016 – now	Ph.D. Student in Department of Computer Science, Johns Hopkins University (Transfered with Prof. Alan Yuille)	Advisor: Alan Yuille
2014 – 2016	Ph.D. Student in Department of Statistics, UCLA	Advisor: Alan Yuille
2011 – 2014	Master in Department of Electronics and Information Engineering, Huazhong University of Sci. & Tech. (HUST)	Advisor: Xiang Bai
2007 – 2011	Bachelor in Department of Computer Science, HUST	

Publication

- **Weichao Qiu**, Alan Yuille, "UnrealCV: Connecting Computer Vision to Unreal Engine", ECCV Workshop VARVAI (Virtual/Augmented Reality for Visual Artificial Intelligence), 2016
- **Weichao Qiu**, "Generating Human Images and Ground Truth using Computer Graphics", Master Thesis of UCLA, Statistics
- Jiayi Ma, **Weichao Qiu**, Ji Zhao, Yong Ma, Alan Yuille and Zhuowen Tu. "Robust L2E Estimation of Transformation for Non-Rigid Registration", IEEE Transactions on Signal Processing, 63(5), pp. 1115-1129, 2015
- **Weichao Qiu**, Xinggang Wang, Xiang Bai, Alan Yuille and Zhuowen Tu, "Scale-Space SIFT Flow", Winter Conference on Applications of Computer Vision (WACV), 2014

Research Experience

2016.02 - current	Use Unreal Engine 4 (UE4) to construct virtual worlds for training and diagnosing computer vision algorithms. Develop an UE4 plugin UnrealCV (`http://unrealcv.github.io`) to make realistic virtual worlds easier to create, use and share.
2015.06 - 2016.01	Use Blender to generate synthetic human images with rich annotation, including keypoint and semantic part labeling.
2013.02 - 2013.11	Visiting Graduate Researcher, Statistics Department, UCLA Extend SIFT-Flow algorithm by adding a scale field to solve large scale variance between two images, collaborate with Prof. Zhuowen Tu Use a web game (`http://myimageiq.com`) on Amazon Turk to study human perception. Participants are asked to see images through a growing aperture and recognize the image content, collaborate with Prof. Hongjing Lu, Psychology Department, UCLA
2010 - 2013	Research Assistant, Multimedia and Communication Lab (MCLab), HUST Implement computer vision algorithms for surveillance purpose, including face recognition and vehicle detection

Work experience

2011 - 2012	Lead developer of Face Recognition team, MCLab Developer of Huajie, Wuhan, Ltd. and Intedio, Beijing, Ltd.
2009	Summer Intern of Microsoft Research Asia, IEG (Innovation Engineering) group

Honor & Award

2010 Excellent Undergraduate of Qiming College, the highest honor for undergraduate in HUST

2009 2nd place of Design for Development award, Microsoft Imagine Cup worldwide final, Cairo, Egypt

Professional Activities

Reviewer of Transactions on Image Processing (TIP)

Skills

Python, C++, MATLAB, LaTeX, HTML, Javascript, C#, Linux, Amazon Turk

Teaching Experience

TA of Probabilistic Models of the Visual Cortex, Stat271, UCLA, 2015

TA of Software Engineering, Department of Electronics and Information Engineering, HUST, 2011, 2012

TA of Image Processing, Department of Electronics and Information Engineering, HUST, 2011, 2012

Leadership

2010 - 2011 President of Unique Studio. It is one of the best technical associations in HUST and receives about 400 applications each year with an acceptance rate less than 5%