Yongtao (Tommy) Hu

Curriculum Vitae

HW335A,
The University of Hong Kong,
Pokfulam Road, Hong Kong
☎ *(852) 9695 6240 (HK)*
or (86) 134 2421 6930 (CN)
✉ *herohuyongtao@gmail.com*
🖥 *i.cs.hku.hk/~ythu*

Education

Sep 2010 - Present
Ph.D Candidate in Computer Science, *The University of Hong Kong*, Hong Kong.
○ Expected in 2014 summer. ○ Working in Computer Graphics Group. ○ Supervisor: Prof. Wenping Wang.

Sep 2006 - Jun 2010
B.Sc in Computer Science, *Shandong University*, Jinan, China.
○ GPA: 91.61/100 (Rank: 3/252) ○ Supervisor: Prof. Changhe Tu

Research Interests

Computer Vision
○ Speaker Identification ○ TV/Movie Viewing Experience Enhancement
○ Image/Video Analysis and Processing ○ Human and Face Detection ○ Motion Tracking

Research Projects

Sep 2012 - Present
Speaker-following Video Subtitles for TV/Movies.
○ An end-to-end framework for smart subtitle placement for TV/movies to enhance viewing experience.
○ HK-ITF project collaborated with OGCIO and HKSFD. Fund: 1.4M HKD.
○ Published a paper on ACM TOMCCAP. Some demos can be seen here.
○ Responsibility: speaker identification and smart subtitle placement.

Jun 2012 - Jun 2014
An Advanced Video Fusion System for Security Investigation.
○ A system that aims to create a 4D reenactment of a past event to assist an incident or crime investigation.
○ HK-ITF project collaborated with ITC-HKSARG, Microsoft HK and Cyberview. Fund: 5M HKD.
○ Responsibility: human detection and motion tracking.

Mar 2011 - Jun 2011
Modeling 3D Infrared Building.
○ A system for modeling 3D infrared building of real scenes (demos by clicking 1, 2). Collaborate with HKU-ME.
○ Responsibility: texture mapping, 3D building and temperature changing visualization.

Professional Experience

Jun 2013 - Present
Researcher, *HKU-Shenzhen Institute for Research and Innovation*, Shenzhen, China.
○ Membership No.: SIRI0927.

2013
Guest Editor, *The 13th International Conference on CAD/Graphics*, Hong Kong.

Mar 2010 - Jun 2010
Research Intern, *Microsoft Research Asia*, Beijing, China.
○ Working in Internet Graphics Group. ○ Mentor: Dr. Xin Tong.

Selected Honors and Awards

2010 - 2014
Research Postgraduate Scholarship, HKU.
Y S and Christabel Lung Postgraduate Scholarship for Engineering Students (2 in total), HKU.

2010
Outstanding Graduate Award (4%), Shandong University.

2009
Meritorious Winner of the Mathematical Contest in Modeling (MCM), USA.
Chancellor Scholarship (0.1%), Shandong University.
National Scholarship (2%), China.
IBM Chinese Excellent Student Scholarship (0.4%), IBM and China Scholarship Council.

2007 - 2009
Top-Class Excellent Student Scholarship (4.5%), Shandong University, thrice.

Skills

Programming
○ Proficient in C/C++, Java, MATLAB, OpenCV and UML
○ Familiar with OpenGL/FBO, GLUT, GLSL and HTML/CSS/Struts/Spring/Hibernate/Ajax

IDE/Tools
○ Microsoft Visual Studio, Eclipse, QT, Tex, Photoshop