Zhuoliang Kang

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Research Topic 3D Computer Vision, Machine Learning

Education

University of Southern California — Los Angeles, CA, USA
Ph.D in Computer Science, Advisor: Gérard Medioni — Aug. 2010 – May. 2015

Fudan University — Shanghai, China
B.S. in Communication Engineering — Sep. 2006 – Jun. 2010

Work Experience

Google — Mountain View, CA, USA
Senior Software Engineer — Jul. 2015 – Present
3D map reconstruction of the world.

Lawrence Livermore National Laboratory — Livermore, CA, USA
Intern - Scientist & Engineer/Technical Scholar — Summer 2014
3D reconstruction from multi-camera wide area aerial imagery.

Walt Disney Imagineering, R&D — Glendale, CA, USA
Intern - Advanced Development — Summer 2012
Image matting and face emotion detection.

Research Experience

Institute for Robotics and Intelligent Systems, USC. — Los Angeles, CA, USA
Research Assistant, Advisor: Gérard Medioni — Jan. 2012 – May. 2015
dense 3D reconstruction, structure-from-motion and real-time SLAM.

Statistical Machine Learning Lab, USC. — Los Angeles, CA, USA
Research Assistant, Advisor: Fei Sha — Aug. 2010 – Dec. 2011
Task grouping for feature sharing in multi-task learning.

Center for Image and Vision Science, UCLA. — Los Angeles, CA, USA
Visiting Research Intern, Advisor: Alan Yuille — Summer 2009
Object recognition using a hierarchical active basis model.

Programming C/C++, CUDA

Selected Publications

Zhuoliang Kang, Gérard Medioni. 3D Urban Reconstruction from Wide Area Aerial Surveillance Video. *Workshop on Applications for Aerial Video Exploitation (WAVE), 2015.*

Zhuoliang Kang, Gérard Medioni. Progressive 3D Model Acquisition with a Commodity Handheld Camera. *Winter Conference on Applications of Computer Vision (WACV), 2015.*

Zhuoliang Kang, Gérard Medioni. Fast dense 3D reconstruction using an adaptive multiscale discrete-continuous variational method. *Winter Conference on Applications of Computer Vision (WACV), 2014.*

Zhuoliang Kang, Kristen Grauman, and Fei Sha. Learning with Whom to Share in Multi-task Feature Learning. *International Conference on Machine Learning (ICML), 2011.*