Zhouyuan Li

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EDUCATION	
Graduate student, University of Wisconsin-Madison, master degree expected in May, 2013	
Sep. 2011 – Now	Department of Computer Sciences
	GPA (First Year): 3.75/4
Bachelor of Engineering of 7	Tsinghua University
Sep. 2007 – Jul. 2008	Department of Mathematics
Sep. 2008 – Jul. 2011	Department of Electronic Engineering
	GPA (First Three Years): 92.31/100 rank: 6/232

RESEARCH EXPERIENCE	
Master's Research	
ECCV 2012 Paper:	Local Label Descriptor for Example based Semantic Image Labeling
	http://pages.cs.wisc.edu/~lizy/papers/eccv-seg.pdf

Use concatenation of label histograms to solve label patch misalignment issue Approximate Label map as a sparse convex combination of exemplar descriptors in the training data Incorporate Low level image over-segmentation to improve efficiency

NIPS 2012 Submission: Structured Label Propagation in an Ensemble of Directed Acyclic Graph

Propose a Semi-supervised structured learning based on energy minimization using an ensemble of directed acyclic graphs that consist of overlapping local cliques which propagate labels from training data to testing data

Computer Graphics Project

EDUCATION

Requirement: most updated Google Chrome and webGL. Demo video included in the same folder 3D first perspective shooting game: the Rise of Monsters http://pages.cs.wisc.edu/~lizy/games/project2/index.html , demo.html , demo.mp4 , screenshot.html 3D first perspective horrendous and adventurous game: Insane Asylum http://pages.cs.wisc.edu/~lizy/games/project3/index.html , demo.html , demo.mp4 , screenshot.html

Bachelor's Research

Automatic Robot Control ----- made and programed a robot that can move and grab boxes Speech Recognition ----- recognized list of words using HMM model Human Flow Tracking ----- Tracked passers-by in two videos with very high accuracy using Hough

Human Detection ----- Used shape contours and improved boosting for human detection

Stereo Vision in Vehicle Detection ----- Reconstructed 3D models of vehicles based on two images using SIFT key point correspondence

ADDITIONAL

First Prize Scholarship Every Year for Academic Outstanding Student in Tsinghua Proficient in math, C++, Java, Javascript, Python, Perl, Matlab, CUDA and Condor