Xiaoyang Li

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Education

Master of Computer Science Sep 2016 – Present

Computer Science Dept., University of Western Ontario, London, ON

- GPA: 4.00/4.00
- Won Western Graduate Research Scholarship ($3,500/term)
- Won Mitacs Globalink Graduate Fellowship Award ($15,000)

Bachelor of Science, Applied Math Sep 2012 – Jun 2016

Tianjin University, Tianjin, China

- Rank No.6, GPA 3.65/4.00
- Won "Triple-A" Student scholarships from 2013 to 2015 continuously (top 10%)
- Won the scholarship of China Scholar Council in 2015 ($5,000)

Work Experience

Back-end Software Developer Intern Apr 2017 – Sep 2017

GlucoGuide Corp., London, ON

- Worked as a member in the tips team and wrote maintainable code in team environment
- Communicated with nutrition team to design conditions for generating customized tips for each client
- Worked efficiently with design teams to answer the needs from client and ensure software solution elevated client side experience

Graduate Teaching Assistant Sep 2016 – Present

University of Western Ontario, London, ON

- Provided guidance to lab works, Counselled students in a small group and adapted their aptitude to give different instruction which makes them reinforce the concept in class
- Nominated for Graduate Student Teaching Assistant Awards in 2017

Academic Project

Automatic Camera Calibration Sep 2016 – Present

University of Western Ontario, London, ON

- The problem is to exploit and integrate data source from multiple sensors in different position
- Designed and built an automatic calibration system which containing robust feature detection, correspondences matching and camera poses estimation with multiple Microsoft Kinect Sensor
- The noise-resistance and highly automatic system outputs equally precise result as previous methods that demands manually selecting matching correspondences

Feature Based Vehicle Detection Nov 2016 –Jan 2017

University of Western Ontario, London, ON

- The main objective is to detect veicles in road scene images
- Extracted HOG features and trained a detecting model with Adaboost algorithm. With locating Region of Interest in the image, the detection rate reached 92.37%, which around 10% higher than traditional sliding window strategy

Obstacle Detection Based On Stereo Sequence Jul – Sep 2015

University of Western Ontario, London, ON

- The goal is to conduct real-time obstacle dectection algorithm in stereo sequence
- Implemented SGBM algorithm in data sequence and improved the accuracy of depth map by 20%
- Implemented V-disparity algorithm on the system, which works at 30 FPS and could achieve road detection, vanishing point detection and block-like obstacle detection at the same time

Profile of Skills

- Programming Languages: C++, C, Matlab, Java and Nodejs
- Tools/Libraries:Git, OpenCV
- Ability to communicate in both English and Mandarin (verbal and written)