Yaliang Wang

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Education

M.S. Computer Science, Department of Electrical Engineering and Computer Science, Northwestern University, *2014 - present*.

B.E. Automation(Control), Department of Control Science and Engineering, Zhejiang University, *2009 - 2013*.

Project

Mobile Management and Development

Product Manager and Software Developer, Social Networking Application, *December, 2014 - March, 2015*
Hybrid App Builds on HTML5, jQuery, PhoneGap™Build & Parse.com .

Computer Vision

Detection, Tracking of Particles and Bubbles in IV Bags, *December, 2014 - present*.

Machine Learning

Handwritten Digit Recognition
December, 2014 - March, 2015
2-Layer Neural Network, 1000 hidden neurons
MNIST Dataset, 60k for training, 10k for testing
Error Rate: 3.27 % on testing
Github Video(3 mins)

Reinforcement Learning in Bipedal Walking Simulation
December, 2014 - March, 2015

Control

Balance Maintenance for Humanoid Robots Subjected to External Disturbance, *December, 2012 - June, 2014*.

Awards

Best Student Application Paper Award, IFAC ICONS 2013, *2013*.

Zhejiang University 2013 Session Excellent Bachelor Thesis Award, Zhejiang University, *2013*.

Publications

Yaliang Wang, Rong Xiong, Qiuguo Zhu, and Jian Chu, "Compliance Control for Standing Maintenance of Humanoid Robots under Unknown External Disturbances", *2014 IEEE International Conference on Robotics and Automation (ICRA 2014)*, pp. 2297-2304 Hong Kong, China, May 31 - June 5, 2014.

Yaliang Wang, Qiuguo Zhu, Rong Xiong, and Jian Chu, "Standing Balance Control for Position Control-Based Humanoid Robot", *3rd IFAC International Conference on Intelligent Control and Automation Science (IFAC ICONS 2013)*, pp.429-436, Chengdu, China, September 2-4, 2013.

Chao Li, Rong Xiong, Qiuguo Zhu, Jun Wu, **Yaliang Wang**, Yiming Huang, "Push recovery for the standing under-actuated bipedal robot using the hip strategy", *Journal of Zhejiang University-SCIENCE*, 2014.

Exchange Experience

Vancouver Summer Business Program, SAUDER School of Business, The University of British Columbia, *July, 2012 - August, 2012*.