

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

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

Reinforcement Learning Based Humanoid Robot Stable Walking Simulation, December, 2014 - present.

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

Radio-frequency Identification Based On-line Intelligent Warehouse Management System, October, 2012 - December, 2012.

Design and Application of Control Board for Roboactor TT313 with ARM7 Embedded Microprocessor, September, 2012 - October, 2012.

Hand Motion Recognition Based on sEMG Acquisition and Processing, June, 2011 - May, 2012.

Publications

Conference Papers

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.

Journal Article

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.

Awards

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

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

Exchange Experience

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