## Daqing Yi


CONTACT INFORMATION

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EDUCATION

**Brigham Young University**, Provo, UT, USA

Ph.D., Computer Science, *Expected:* Summer 2016

- Advisors: Michael A. Goodrich, Ph.D

**Tongji University**, Shanghai, China

M.S., Control theory and control engineering, March 2008

- Topic: *Research on Biologically Inspired Visual Perception and Control.*
- Advisor: Ping Jiang, Ph.D

B.S., Automation, June 2005

RESEARCH EXPERIENCE

**Research Assistant** September 2012 to present

Human Centered Machine Intelligence Lab,
Department of Computer Science,
Brigham Young University

*Research topics*: Path planning, Multi-objective optimization, Evolutionary computation, Bayesian learning and inference, Robotics, Human-robot interaction

**Research Assistant** September 2005 to March 2008

Robot and Intelligent System Lab,
Department of Control Science and Engineering,
Tongji University

*Research topics*: Iterative learning control, Neural network, Optimal control, Wireless sensor network

WORK EXPERIENCE

**Software Engineer** May 2010 to July 2012

QAD Inc., Shanghai, China

*Area of work*: Developing supply chain component in ERP system

**Software Engineer** April 2008 to May 2010

Zii Labs, Creative Technology Ltd., Shanghai, China

*Area of work*: Developing SDK for "stemcell computing" platform

PUBLICATIONS

**Article In Preparation**

1. **Yi, D.**, Seppi, K. and Goodrich, M., "Understanding the Particle Swarm Optimization by component decomposition". *In preparation for submission to IEEE Transaction on Evolutionary Computation.*

2. **Yi, D.**, Goodrich, M and Seppi, K., "Homotopy-Aware RRT* : Toward Human-Robot Topological Path-Planning.".

**Peer Reviewed Journal Articles and Conference Proceedings Articles**

1. **Yi, D.**, Goodrich, M. and Seppi, K., "MORRF* : Sampling-Based Multi-Objective Motion Planning." *2015 IJCAI* (Accepted).

2. **Yi, D.**, Seppi, K. and Goodrich, M., "Input-to-state stable analysis on Particle Swarm Optimization." *2015 GECCO* (Accepted).

3. **Yi, D.**, Goodrich, M. and Seppi, K., "Informative Path Planning with a Human Path Constraint." *2013 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, October 2014.

4. **Yi, D.** and Goodrich, M., "Supporting task-oriented collaboration in human-robot teams using semantic-based path planning." *Proc. SPIE 9084, Unmanned Systems Technology XVI, 90840D*, June 2014.

5. Goodrich, M. and **Yi, D.**, "Toward Task-Based Mental Models of Human-Robot Teaming: A Bayesian Approach." *Virtual Augmented and Mixed Reality. Designing and Developing Augmented and Virtual Environments.* Springer Berlin Heidelberg, 267-276, July 2013.

6. **Yi, D.**, Jiang, P., Mallen, E., Wang, X., Zhu, J., "Enhancement of image luminance resolution by imposing random jitter." *Neural Computing & Applications*, vol. 20, no. 2, pp. 261-272, 2011.

7. **Yi, D.**, Jiang, P., Mallen, E., Wang, X., Zhu, J., "A Simple Neural Network for Enhancement of Image Acuity by Fixational Instability." *Advances in Neural Networks-ISNN 2009, Lecture Notes in Computer Science*, Springer, pp. 289-298, 2009.

8. **Yi, D.**, Wu, J. and Jiang, P., "Iterative Learning Control for Visual Servoing with Unknown Homography Matrix." *IEEE International Conference on Control and Automation, 2007. ICCA 2007.* pp.2791-2796, May 30 2007-June 1 2007.