Fayette W. Shaw

University of Washington
Department of Mechanical Engineering
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Education

Ph.D. Mechanical Engineering, University of Washington, *expected* December 2010.

Advisor: Eric Klavins, Electrical Engineering, University of Washington.

M.S. Mechanical Engineering, University of Washington, 2006.

B.S. Mechanical Engineering, Carnegie Mellon University, 2003.

Minors: Robotics and Physics.

Research Interests

Robotics, Computational Textiles, Multi-Agent and Distributed Systems, Control Theory.

Positions Held

Department of Electrical Engineering, University of Washington, Seattle, WA.

Research Assistant, with Prof. Eric Klavins, Winter 2004 - present.

Research Department, iRobot Corporation, Bedford, MA.

Intern, June - September 2008.

Department of Mechanical Engineering, University of Washington, Seattle, WA.

Teaching Assistant, System Dynamics: Analysis and Design, with Prof. Joseph Garbini, Spring 2005.

Teaching Assistant, Introduction to System Dynamics, with Prof. Joseph Garbini, Winter 2005.

Teaching Assistant, Automatic Control, with Prof. Joseph Garbini, Fall 2004.

Product Development Department, Segway L.L.C., Bedford, NH.

Intern, June – September 2004.

Carnegie Mellon University, Robotics Institute, Pittsburgh, PA.

Research Assistant, with Prof. Brett Browning, Spring 2004.

Research Assistant, with Prof. David Wettergreen, June 2002–December 2003.

Publications

[1] F. W. Shaw, E. Klavins, Distributed Estimation for Robotic Assembly, *in preparation*.

[2] F. W. Shaw, A. Chiu, and J. D. McLurkin, Agreement with Dropped Messages in Multi-Robot Systems, Intelligent Robots and Systems (IROS) 2010, *in review*.

[3] F. W. Shaw and E. Klavins, Distributed Estimation and State Assignment for Stochastically Interacting Robots, Proceedings of the International Federation for Automatic Control, Workshop on Estimation and Control in Networks, September 2009.

[4] F. W. Shaw and E. Klavins, Distributed Estimation and Control for Stochastically Interacting Robots, Conference on Decision and Control, December 2008.

Professional Activities

Reviewer

Automatica, 2010.

International Conference on Robotics and Automation (ICRA), 2010.

Conference on Decision and Control (CDC), 2008 and 2009.

International Conference on Intelligent Robotics and Systems (IROS), 2009.

ACM Transactions on Autonomous and Adaptive Systems (TAAS), 2009.

Hybrid Systems Controls Conference (HSCC), 2009.

American Control Conference (ACC), 2008.

Volunteer

Robotics: Systems and Sciences Conference, Seattle, WA, June 2009.

Women in Science and Engineering Conference, *panelist*, Seattle, WA, February 2009.

University of Washington BioRobotics Workshop, Seattle, WA, January 2007.

American Control Conference, Portland, OR, June 2005.

Guest Lecturer

Linear Algebra in Multi-Agent Systems, UW Math Academy, July 2010.

Agreement with Dropped Messages in Multi-Robot Systems, COMP600: Graduate Research Seminar, Rice University, December 2009.

Distributed Robotic Systems, UW Math Academy, July 2009.

Stochastically Interacting Robots, UW CSE491: Robotics Capstone, March 2009.

Distributed Control and Estimation in Self-Organizing Robots, Special Seminar, Carnegie Mellon University, May 2008.

Segway Control System, UW EE447: Control Systems Analysis, October 2004.

Awards

Best poster, UW Center for Nanotechnology's Poster Competition. J. Bishop, F. W. Shaw, and E. Klavins. Improved Repeatability of a DNA Nanomotor, October 2006.

Nomination for TA Award, June 2005.