

Piyush Khandelwal

CONTACT INFORMATION	Department of Computer Science University of Texas at Austin 2317 Speedway, Stop D9500 Austin TX 78712, USA	Voice: (512) 923-3240 E-mail: piyushk@cs.utexas.edu piyushk@gmail.com www.cs.utexas.edu/~piyushk
EDUCATION	University of Texas at Austin , Austin, Texas USA Ph.D. in Computer Science • Advisor: Peter Stone • Research: Multi-Robot Systems University of Texas at Austin , Austin, Texas USA M.S. in Computer Science • Advisor: Peter Stone • GPA: 3.8340 / 4 Indian Institute of Technology Roorkee , Roorkee, Uttarakhand India B.Tech. in Computer Science and Engineering • GPA: 8.78 / 10	<i>Aug 2011 - Present</i> <i>Aug 2009 - Dec 2011</i> <i>Aug 2005 - May 2009</i>
ACADEMIC APPOINTMENTS	University of Texas at Austin , Austin, Texas USA <i>Graduate Research Assistant</i> • Performed research on multi-robot systems and developed software and hardware infrastructure for the project. University of Texas at Austin , Austin, Texas USA <i>Research Educator</i> • Served as the primary instructor for an upper-division undergraduate course aimed at introducing freshmen students to research. University of Texas at Austin , Austin, Texas USA <i>Teaching Assistant</i> • Held discussion sections and office hours to assist students with coursework.	<i>Jan - May 2013, Aug 2013 - Present</i> <i>May 2011 - Dec 2012, May - Aug 2013</i> <i>September 2009 - May 2011</i>
PROFESSIONAL EXPERIENCE	Google India Pvt. Ltd. , Bangalore, Karnataka, India <i>Software Engineering Intern</i> • Developed a REST-style server for manipulating albums in Orkut through external websites and smartphones.	<i>May 2008 - July 2008</i>
AWARDS	• RoboCup SPL World Champions 2012 • RoboCup SPL International Competition, 3rd place, 2010 • RoboCup SPL U.S. Open Champions 2010, 2012	
TECHNICAL SKILLS	• Over 4 years of experience working with real robots including the Aldebran Nao, UT's Autonomous Vehicle, Turtlebots and custom Segway RMP-based robots. • Over 3 years of experience with ROS (Robot Operating System), with over 20 released and maintained packages in ROS Hydro. • 1 year of experience with the GAZEBO simulator and its interface with ROS. • Proficient in C++. Decent working knowledge of Python and Linux systems.	

Refereed Conferences

- [1] Piyush Khandelwal, Fangkai Yang, Matteo Leonetti, Vladimir Lifschitz, and Peter Stone. “Planning in Action Language *BC* while Learning Action Costs for Mobile Robots”. In: *International Conference on Automated Planning and Scheduling (ICAPS)*. 2014.
- [2] Dustin Carlino, Mike Depinet, Piyush Khandelwal, and Peter Stone. “Approximately Orchestrated Routing and Transportation Analyzer: Large-scale Traffic Simulation for Autonomous Vehicles”. In: *IEEE Intelligent Transportation Systems Conference (ITSC)*. 2012.
- [3] Matthew Hausknecht, Piyush Khandelwal, Risto Miikkulainen, and Peter Stone. “HyperNEAT-GGP: A HyperNEAT-based Atari General Game Player”. In: *Genetic and Evolutionary Computation Conference (GECCO)*. 2012.

Book Chapters

- [1] Samuel Barrett, Katie Genter, Yuchen He, Todd Hester, Piyush Khandelwal, Jacob Menashe, and Peter Stone. “The 2012 UT Austin Villa Code Release”. In: *RoboCup-2013: Robot Soccer World Cup XVII*. Lecture Notes in Artificial Intelligence. Springer Verlag, 2014.
- [2] Samuel Barrett, Katie Genter, Yuchen He, Todd Hester, Piyush Khandelwal, Jacob Menashe, and Peter Stone. “UT Austin Villa 2012: Standard Platform League World Champions”. In: *RoboCup-2012: Robot Soccer World Cup XVI*. Lecture Notes in Artificial Intelligence. Springer Verlag, 2013.
- [3] Piyush Khandelwal and Peter Stone. “A Low Cost Ground Truth Detection System Using the Kinect”. In: *RoboCup-2011: Robot Soccer World Cup XV*. Lecture Notes in Artificial Intelligence. Springer Verlag, 2012.

Refereed Workshops/Symposiums

- [1] Piyush Khandelwal and Peter Stone. “Multi-Robot Human Guidance using Topological Graphs”. In: *AAAI Spring Symposium on Qualitative Representation for Robots*. 2014.
- [2] Fangkai Yang, Piyush Khandelwal, Matteo Leonetti, and Peter Stone. “Planning in Answer Set Programming while Learning Action Costs for Mobile Robots”. In: *AAAI Spring Symposium on Knowledge Representation and Reasoning in Robotics*. 2014.
- [3] Piyush Khandelwal, Matthew Hausknecht, Juhyun Lee, Aibo Tian, and Peter Stone. “Vision Calibration and Processing on a Humanoid Soccer Robot”. In: *The Fifth Workshop on Humanoid Soccer Robots at International Conference on Humanoid Robots*. 2010.

Technical Reports

- [1] Samuel Barrett, Katie Genter, Todd Hester, Piyush Khandelwal, Michael Quinlan, Peter Stone, and Mohan Sridharan. *Austin Villa 2011: Sharing is Caring: Better Awareness through Information Sharing*. Tech. rep. UT-AI-TR-12-01. Technical Report. The University of Texas at Austin, Department of Computer Sciences, AI Laboratory, 2012.
- [2] Samuel Barrett, Katie Genter, Matthew Hausknecht, Todd Hester, Piyush Khandelwal, Juhyun Lee, Michael Quinlan, Aibo Tian, Peter Stone, and Mohan Sridharan. *Austin Villa 2010 Standard Platform Team Report*. Tech. rep. UT-AI-TR-11-01. Technical Report. The University of Texas at Austin, Department of Computer Sciences, AI Laboratory, 2011.