

Mazda Ahmadi

CONTACT INFORMATION

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RESEARCH INTERESTS

Artificial Intelligence, Intelligent Robotics, Machine Learning, Multi-Robot Systems, Planning under Uncertainty, Reinforcement Learning, Wireless Networks.

EDUCATION

The University of Texas at Austin, Austin, Texas USA

Ph.D. Student, Computer Sciences, August 2003 - current
Dissertation Topic: “Cooperative Multirobot Systems for Continual Tasks”
Research advisor: Peter Stone
Proposal approval date: December 2007

Sharif University of Technology, Tehran, Iran

B.Sc., Computer Engineering, May 2003

HONORS AND AWARDS

- Best paper award at 2007 RoboCup Symposium
- Best student paper award nomination at AAMAS 2007
- Selected as one of the *Stars of Sharif*. Each year, the award is given to Sharif University distinguished graduates. 2003.
- World Champion in RoboCup-Rescue Simulation league in Padova, Italy, July 2003. (My role in the team: coordinator and research consultant)
- World Champion in RoboCup-Rescue Simulation league in Fukuoka, Japan, June 2002. (My role in the team: coordinator and software designer)
- 2nd place in RoboCup-Rescue Simulation league in Seattle, USA, August 2001. (My role in the team: designer and developer)
- Ranked 4th in Iran national universities entrance exam, 1998.
 - Remark: About 300000 students participate in this exam every year.
- Silver medal in seventh national Informatics Olympiad, 1997.

SELECTED PUBLICATIONS

M. Ahmadi and P. Stone. Instance-Based Action Models for Fast Action Planning. In Ubbo Visser, Fernando Ribeiro, Takeshi Ohashi, and Frank Dellaert, editors, RoboCup-2007: Robot Soccer World Cup XI, Springer Verlag, Berlin, 2008. To appear. (earlier version appeared in AAAI workshop on cognitive robotics)
Best paper award winner at RoboCup International Symposium.

M. Ahmadi, M. Taylor and P. Stone, “IFSA: Incremental Feature-Set Augmentation”, In The Sixth International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS), May 2007.
Nominated for best student paper award.

M. Ahmadi and P. Stone, “Keeping in Touch: Maintaining Biconnected Structure by Homogeneous Robots”, In Twenty-First National Conference on Artificial Intelligence (AAAI), July 2006.

M. Ahmadi and P. Stone. “A Multi-Robot System for Continuous Area Sweeping Tasks”, In Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), May 2006.

M. Ahmadi and P. Stone. "Keeping in Touch: A Distributed Check for Biconnected Structure by Homogeneous Robots", In The 8th International Symposium on Distributed Autonomous Robotic Systems (DARS), July 2006.

M. Ahmadi and P. Stone. "Continuous Area Sweeping: A Task Definition and Initial Approach", In The 12th International Conference on Advanced Robotics (ICAR), July 2005.

M. Ahmadi, T. Takahashi, J. Habibi, T. Koto, "RoboCupRescue System and Arian: A Flexible Infrastructure for Multi-Agent Research and Education", 15th IEEE Conference on Tools with Artificial Intelligence, Sacramento, USA, 2003: 351-355.

J. Habibi, M. Ahmadi, A. Nouri, M. Sayyadian, and M. M. Nevissi "Implementing Heterogeneous Agents in Dynamic Environments, a Case Study in RoboCupRescue", Multiagent System Technologies, Germany. 2003: 95-104.

M. Ahmadi, M. Motamed, J. Habibi "Arian: A General Architecture for Advisable Agents", Machine Learning Methods, Technologies and Applications, Las Vegas, USA, 2003: 17-23.

M. Ahmadi, A. K. Lamjiri, M. M. Nevisi, J. Habibi, K. Badie "Using a Two-Layered Case-Based Reasoning for Prediction in Soccer Coach", Machine Learning Methods, Technologies and Applications, Las Vegas, USA, 2003: 181-185.

M. Ahmadi, M. Sayyadian, J. Habibi, "A Learning Method for Evaluating Messages in Multi-agent Systems", In proceedings of the Agent Communication Languages and Conversation Policies, AAMAS'02 Workshop, Italy, Bologna, 2002.

M. Ahmadi, M. Sayyadian, H. R. Rabiee, "A Coalition Formation for Task Allocation via Genetic Algorithms", In Proceedings of The First Eurasian Conference on Advances in Information and Communication Technology (EurAsia ICT 2002), LNCS, Springer Verlag.

INVITED TALKS

"Continuous Area Sweeping", IEEE Robotics and Automation Society, Department of Electrical and Computer Engineering, University of Texas at Austin, February 2006.

"RoboCup Rescue: A Multi-Agent Environment", Forum of Artificial Intelligence, Computer Science Department, University of Texas at Austin, December 2002.

"RoboCup Rescue as an Introduction to Multi Agent Systems", ACM Student Chapter Seminar Series, Computer Engineering Department, Sharif University of Technology, December 2002.

RESEARCH ACTIVITIES

[08/04 - present] Research Assistant to Dr. Peter Stone. I'm working on surveillance robots, multi-robot systems, planning under uncertainty, and machine learning methods. For more detail see the publications.

[07/00 to 06/03] Undergraduate research assistant of Prof. Jafar Habibi, Simulation lab, computer engineering department, Sharif University of Technology. The research in the lab was focused on multi-agent systems and machine learning methods. As part of this lab, I co-founded the Arian team for RoboCup-Rescue simulation, which won two world championships and one second place. I was coordinator of the labs multi-agent section from 01/01 to 01/02 and coordinator of the whole lab from 01/02 to 06/03.

TEACHING EXPERIENCE

Teaching Assistant

Instructor: Peter Stone

The University of Texas at Austin, Spring 2004 and Spring 2005.

Autonomous Multiagent Systems

My responsibilities included holding office hours, helping students with the course project, and giving one guest lecture on RoboCup Rescue.

Head Teaching Assistant

Elements of Computers and Programming

Instructor: Shyamal Mitra

The University of Texas at Austin, Fall 2003

My responsibilities included coordinating between five TAs, and three proctors. Also, I hold two discussion sessions per week.

Undergraduate Teaching Assistant

Introduction to Artificial Intelligence

Instructor: Hesham Faili

Sharif University of Technology, Fall 2002

My responsibilities included holding office hours, and grading homework assignments.

PROGRAM
COMMITTEE

Distributed Autonomous Robotic Systems (DARS), July 2006.

CONFERENCE
REVIEWS

IEEE International Conference on Robotics and Automation (ICRA), April 2005.

ISCRAM Special Session on Multi-agent Systems for Disaster Management and Response, May 2006 and May 2007.

COMPUTER SKILLS

- **Programming Languages:** proficient in C++, Prolog, Pascal, and Visual C++. Familiar with Java, Lisp, Asp, Delphi and Web design.
- **Environments:** Linux, Windows and Solaris.
- **Technologies:** Object oriented software analysis, design and development.
- **DBMS:** Oracle, MySQL, PostgreSQL, MS SQL Server

PERSONAL

- **Citizenship:** United States, Iran
- **Hobbies:** raquetball, tennis, camping, hiking

REFERENCES:

Available upon request.