James S. Atlas
Department of Computer and Information Sciences
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Research Interests
Optimization algorithms, artificial intelligence, distributed systems, multi-agent systems, high performance computing, wireless networking, agent-oriented software engineering, bioinformatics

Professional Preparation
Ph.D. in Computer and Information Sciences. University of Delaware, Newark, DE. GPA 3.85/4.0. Thesis: Efficient Coordination Techniques for Non-deterministic Multi-agent Systems. Advisor: Keith Decker. August 2009

M.S. in Computer and Information Sciences. University of Delaware, Newark, DE. GPA 3.83/4.0. May 2006

B.A. double major in Computer Science and Christian Ministries. Messiah College, Grantham, PA. GPA 3.75/4.0. May 2001

Appointments
Assistant Professor (Teaching), Department of Computer and Information Sciences, University of Delaware, September 2009–present

Professional Activities
Research Intern, Hx Technologies, May 2007–August 2007
Research Intern, Quantum Leap Innovations, May 2005–August 2005
Senior Software Developer, Payment Technologies, May 2001–August 2004

Awards

Selected Publications

1. J. Atlas and K. Decker. Coordination for Uncertain Outcomes using Distributed Neighbor Exchange. Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS10), ??-??, 2010.

2. J. Atlas, T. Estrada, K. Decker, M. Taufer. Balancing Scientist Needs and Volunteer Preferences in Volunteer Computing using Constraint Optimization. Proceedings of the International Conference on Computational Science 2009.

3. J. Atlas. A Distributed Constraint Optimization Approach for Coordination under Uncertainty. Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS09) [extended abstract].

4. J. Atlas, M. Warner, and K. Decker. A Memory Bounded Hybrid Approach to Distributed Constraint Optimization. Proceedings of the International Workshop on Distributed Constraint Reasoning (DCR) at AAMAS08, 37-51, 2008.

5. J. Atlas and K. Decker. A Complete Distributed Constraint Optimization Method For Non-Traditional Pseudotree Arrangements. Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS07), 736-743, 2007.

6. J. Atlas, K. Decker, and M. Swany. Flexible Grid Workflows Using TÆMS. Proceedings of the Workshop on Exploring Planning and Scheduling for Web Services, Grid, and Autonomic Computing at AAAI05, 24-31, 2005.

Synergistic Activities
TeachScheme/ReachJava training workshop, Northeastern University, July 2009.
Dr. Keith Decker, Multi-Agent Systems Lab, University of Delaware, 2005 – present. Research collaboration.
Dr. Michela Taufer, Global Computing Lab, University of Delaware, 2008 – present. Research collaboration.

Collaborators and Other Affiliations
Board member, Messiah College Computer Science Advisory Board, 2005 – present.
Reviewer: JAAMAS
Auxiliary reviewer: AAAI, AAMAS
Joe Murray, VP of Technology, Hx Technologies, Inc.
Gary Moyer, Development Manager, JP Morgan Chase

Past and Current Students, Postdoctoral Scholars
Matt Warner, B.S. in Computer and Information Sciences, May 2008.