



Distributed Artificial Intelligence Lab

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❑ MAIN RESEARCH FOCI

- ✓ Distributed Artificial Intelligence, Multiagent Systems, Machine Learning:
- ✓ Meta-level Reasoning, Planning, Scheduling, Coordination, Reasoning Under Uncertainty
- ✓ Markov Decision Processes, Reinforcement Learning, Support Vector Machines, Distributed Constraint Optimization, Decision Theory, Game Theory

❑ APPLICATIONS

- ✓ Convention Formation for the Language Coordination Problem
- ✓ Multiagent Reinforcement Learning for Weather Tracking
- ✓ Load balancing in WLANs
- ✓ Intelligent Home Testbed
- ✓ Intelligent Assistants for Defense Systems
- ✓ Visualization for Intelligent Analysis

❑ CURRENT PROJECTS

- ✓ Transportation: Game Theory and Meta-level Reasoning for Traffic Optimization
- ✓ Clinical Informatics: Advanced Machine Learning for Preterm Birth Prediction

❑ ACHIEVEMENTS

- ✓ Primary Advisor for 2 Ph.D. dissertations and 6 Masters thesis and multiple senior projects
- ✓ \$10M in research funding since 2003
- ✓ 50+ Highly Refereed Publications
- ✓ 2010 Conference Best Paper Award and 2004 Best Paper nomination in Intelligent Agent Technology
- ✓ Multiple Tier-1 Journal publication: Artificial Intelligence and Autonomous Agents and Multi-Agent Systems
- ✓ Co-editor and Co-author of MIT Press book on Metareasoning

