

Schedule of 2002 AAI Spring Symposium on Collaborative Learning Agents

Monday, March 25, 2002

- 9:00-9:15 **Welcome and Introduction**
- 9:15-9:45 *“On decision-theoretic approach to game theory”*
Piotr J. Gmytrasiewicz
- 9:45-10:15 *“A multiagent framework for collaborative conceptual learning using a Dempster-Shafer belief system”*
Leen-Kiat Soh
- 10:15-10:25 *Research Summary:*
“Tradeoffs in decision-making frameworks and interaction styles”
K. Suzanne Barber, Matt MacMahon, and Cheryl E. Martin
- 10:25-11:00 **COFFEE BREAK**
- 11:00-11:30 *“Sharing a concept”*
Sandip Sen and Parijat Prosun Kar
- 11:30-12:00 *“Co-evolution learning in organizational-learning classifier system”*
Takao Terano and Yasushi Ishikawa
- 12:00-12:30 *“Congregating and market formation”*
Christopher H. Brooks and Edmund H. Durfee
- 12:30-2:00 **LUNCH**
- 2:00-3:00 **INVITED TALK: Michael Littman**
- 3:00-3:30 *“Learning organization in global intelligence”*
Masayuki Numao, Daishi Kato, and Masuru Yokoyama
- 3:30-4:00 **COFFEE BREAK**
- 4:00-5:30 **PANEL DISCUSSION**
- 6:00-7:00 **RECEPTION**

Tuesday, March 26, 2002

- 9:00-9:30 *“On measuring the usefulness of modeling in a competitive and cooperative environment”*
Leonardo Garrido, Ramon Brena, and Katia Sycara
- 9:30-10:00 *“Coordinated reinforcement learning”*
Carlos Guestrin, Michail Lagoudakis, and Ronald Parr
- 10:00-10:20 *Research Summaries:*
“Coordinated deliberation management in multi-agent CIRCA”
Kurt D. Krebsbach

- "Q-learning in Collectives"*
A. Agogino
- 10:20-11:00 **COFFEE BREAK**
- 11:00-11:30 *"Collaborative learning in strategic environments"*
Akira Namatame, Noriko Tanoura, and Hiroshi Sata
- 11:30-12:00 *"Learning to form negotiation coalitions in a multiagent system"*
Leen-Kiat Soh and Costas Tsatsoulis
- 12:00-12:20 *Research Summaries:*
"Adverserial collaboration: An overview of social quantum logic"
W. F. Lawless
- "Problem decomposition for problem solution"*
Leona F. Fass
- 12:20-2:00 **LUNCH**
- 2:00-3:00 **INVITED TALK: David Wolpert**
- 3:00-3:30 *"Cooperative case bartering for case-based reasoning agents"*
Santiago Ontanon, and Enric Plaza
- 3:30-4:00 **COFFEE BREAK**
- 4:00-4:30 *"Correlated-Q learning"*
Amy Greenwald and Keith Hall
- 4:30-5:00 *"Towards social complexity reduction in multiagent learning: the ADHOC approach"*
Michael Rovatsos and Marco Wolf
- 5:00-5:30 **DISCUSSION**
- 6:00-7:00 **PLENARY SESSION (Common to all Symposia)**

Wednesday, March 27, 2002

- 9:30-10:00 *"Context specific multiagent coordination and planning iwth factored MDPs"*
Carlos Guestrin, Shobha Venkataraman, and Daphne Koller
- 10:00-10:30 *"Large scale Q-tables"*
Kalle Prorok
- 10:30-11:00 **COFFEE BREAK**
- 11:00-11:30 *"Local algorithms for finding equilibria in structured games"*
David Vickrey and Daphne Koller
- 11:30-12:00 **DISCUSSION AND WRAP UP**