

Autonomous Robots and Multirobot Systems (ARMS 2012): Technical Program

A workshop at the AAMAS 2012 conference

June 5, 2012

Time		Title	People
08:45	09:00	Opening Remarks	Hindriks and Kaminka
09:00	10:20	Planning	
09:00	09:25	Online Planning for Large MDPs with MAXQ Decomposition	Aijun Bai, Feng Wu and Xiaoping Chen
09:25	09:50	ASP-POMDP: Integrating Non-monotonic Logical Reasoning and Probabilistic Planning on Mobile Robots	Shiqi Zhang, Forrest S. Bao and Mohan Sridharan
09:50	10:15	Distributed Algorithms for Incrementally Maintaining Multiagent Simple Temporal Networks	James Boerkoel and Leon Planken
10:20	10:50	Break	
10:50	13:00	Canonical Tasks	
10:50	11:15	Information Focused Path Planning for Multiple Robots Using Monte Carlo Tree Search	Laura Lindzey and Paul Scerri
11:15	11:40	Robot Planning for Finding Objects by Querying the Web	Thomas Kollar, Mehdi Samadi and Manuela Veloso
11:40	12:05	Generating Strategies for Multi-Agent Pursuit-Evasion Games in Partially Observable Euclidean Space	Eric Raboin, Ugur Kuter and Dana Nau
12:05	12:30	Distributed spatial partitioning of an initially unknown region for a multi-robot coverage application	K.R. Guruprasad and Prithviraj Dasgupta
12:30	12:55	An Approach to Navigation for the Humanoid Robot NAO in Domestic Environments	Junchao Xu, Changyun Wei, Chang Wang, Pascal Wiggers and Koen Hindriks

Time		Title	People
13:00	14:20	Lunch	
14:20	16:00	Multi-Robot Systems, Robot Vision	
14:20	14:45	A fully distributed communication-based approach for spatial clustering in robotic swarms	Gianni Di Caro, Frederick Ducatelle and Luca Gambardella
14:45	15:10	Neuroevolutionary Control of a Multi-linked Inverted Pendulum with a Large Number of Agents	Stephen Sills and Kagan Tumer
15:10	15:35	MO-LOST: Adaptive ant trail untangling in multi-objective multi-colony robot foraging	Zhao Song, Seyed Abbas Sadat and Richard Vaughan
15:35	16:00	Vision-based Autonomous Learning of Object Models on a Mobile Robot	Xiang Li and Mohan Sridharan
15:30	16:00	Break	
16:00	16:50	Human-Robot Interaction (HRI)	
16:00	16:20	Configurable Human-Robot Interaction for Multi-Robot Manipulation Tasks	Bennie Lewis and Gita Sukthankar
16:25	16:50	Investigating Trust Issues arising from Human-Robot Information Sharing	Matthias U. Keysermann, Ruth Aylett, Sibylle Enz, Henriette Cramer, Carsten Zoll and Patricia A. Vargas
16:50	17:40	Development	
16:50	17:15	On Transfer from Multiagent to Multi-Robot Systems	Elizabeth Sklar, A. Tuna Ozgelen, Eric Schneider, Michael Costantino, Susan L. Epstein and Simon Parsons
17:15	17:40	Real-World Testing of a Multi-Robot Team	Paul Scerri, Prasanna Velagapudi, Balajee Kannan, Abhinav Valada, Christopher Tomaszewski, Adrian Scerri, Kumar Shaurya Shankar, Luis Lorenzo Bill-Clark and George Kantor

Time		Title	People
17:40	18:00	End-of-Day Summary Discussion, Closing Remarks	
18:00		Dinner	

[Gal A. Kaminka](#)