

ALA 2012 – Program

[www.http://como.vub.ac.be/ALA2012/](http://como.vub.ac.be/ALA2012/)

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Regular papers: 25 minutes Presentations (RP)

Short papers: 15 minutes Presentations (SP)

Monday 4th June

09:00-09:05 Welcome & Opening Remarks

Session 1:	Session Chair: Karl Tuyls
09:05-10:25	
(RP)	Lisa Torrey and Matthew Taylor. Help an Agent Out: Student/Teacher Learning in Sequential Decision Tasks.
(SP)	Yann-Michaël De Hauwere, Sam Devlin, Daniel Kudenko and Ann Nowé. Context sensitive reward shaping in a loosely coupled multi-agent system
(RP)	Landon Kraemer and Bikramjit Banerjee. Informed Initial Policies for Learning in Finite Horizon Dec-POMDPs
(SP)	Yujing Hu, Yang Gao, Ruili Wang, Zhaonan Sun and Xingguo Chen. nMetaQ: An n-agent Reinforcement Learning Algorithm Based on Meta Equilibrium

10:25-10:50 Coffee Break

Session 2:	Session Chair: Yann-Michaël De Hauwere
10:50-12:10	
(RP)	Sam Devlin and Daniel Kudenko. Plan-Based Reward Shaping for Multi-Agent Reinforcement Learning
(RP)	Kyriakos Efthymiadis, Sam Devlin and Daniel Kudenko. Overcoming Incorrect Knowledge in Plan-Based Reward Shaping
(RP)	Chris Holmesparker and Kagan Tumer. Combining Difference Rewards and Hierarchies for Scaling to Large Multiagent Systems

Session 3:	Session Chair: Enda Howley
12:10-13:00	
Invited Speaker	Prof. Michael Luck, King's College London

13:00-14:20 Lunch

Session 4:	Session Chair: Matt Taylor
14:20-16:00	
(RP)	Sam Ganzfried and Tuomas Sandholm. Safe Opponent Exploitation
(RP)	Daniel Villatoro, Giulia Andrighetto, Jordi Brandts, Jordi Sabater Mir and Rosaria Conte. Learning with more than rewards: The Implicit Signalling of Distributed Punishment
(RP)	Kleanthis Malialis and Daniel Kudenko. Reinforcement Learning of Throttling for DDoS Attack Response
(RP)	Graçaliz Dimuro and Antonio Costa. Regulation of Social Exchanges in Open MAS: the problem of reciprocal conversions between POMDPs and HMMs

16:00-16:30 Coffee Break

Session 5:	Session Chair: Sam Devlin
16:30-18:30	
(RP)	Samuel Barrett, Peter Stone, Sarit Kraus and Avi Rosenfeld. Learning Teammate Models for Ad Hoc Teamwork
(SP)	Monica Piñol, Angel Sappa, Angeles López and Ricardo Toledo. Feature Selection Based on Reinforcement Learning for Object Recognition
(RP)	Todd Hester and Peter Stone. Intrinsically Motivated Model Learning for a Developing Curious Agent
(SP)	Scott Proper and Kagan Tumer. Coordination Graphs in Continuous Domains for Multiagent Reinforcement Learning
(RP)	Patrick Macalpine and Peter Stone. Using Dynamic Rewards to Learn a Fully Holonomic Bipedal Walk
(SP)	Atil Iscen and Kagan Tumer. Multiagent Learning of choices via simpler MDPs and Reward Shaping

Tuesday 5th June

Session 1:	Session Chair: Daniel Hennes
09:00-10:20	
(RP)	Matthew Adams, Robert Loftin, Matthew Taylor, Michael Littman and David Roberts. An Empirical Analysis of RL's Drift From Its Behaviorism Roots
(RP)	Olivier Georgeon and Sakellariou Ilias. Designing Environment-Agnostic Agents
(RP)	David Cateeuw and Bernard Manderick. Emergence of Honest Signaling through Reinforcement Learning

10:20-10:50 Coffee Break

Session 2:	Session Chair: Sam Devlin
10:50-12:00	
(SP)	Carrie Rebhuhn and Kagan Tumer. Fast Multiagent Learning from Actions Not Taken for Heterogeneous Agents
(SP)	Eunhyung Kim, Yu-Han Chang, Rajiv Maheswaran, Yu Ning and Luyan Chi. Adaptive Agents in Dynamic Games: Negotiating in Diverse Societies
(RP)	Abdel Rodríguez, Peter Vrancx, Ricardo Grau and Ann Nowé. A Reinforcement Learning Approach to Coordinate Exploration with Limited Communication in Continuous Action Games
(SP)	Mohamed Elidrisi, Nicholas Johnson and Maria Gini. Fast Learning against Adaptive Adversarial Opponents

12:00 -12:10 ALA Community Meeting & Announcements

Session 3:	Session Chair: Enda Howley
12:10-13:00	
Invited Speaker	Prof. Simon Parsons, Brooklyn College, The City University of New York,

Summary:

16 Regular papers: 25 min Presentations (RP)
8 Short papers: 15 min Presentations (SP)