

# ALA 2012 – Program

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

Talk with us on Twitter: #ALA12

Join our LinkedIn Group: Adaptive Learning Agents

Regular papers: 25 minutes Presentations (RP)

Short papers: 15 minutes Presentations (SP)

Monday 4<sup>th</sup> June

09:00-09:05 Welcome & Opening Remarks

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

10:25-10:50 Coffee Break

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

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

13:00-14:20 Lunch

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

16:00-16:30 Coffee Break

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

Tuesday 5<sup>th</sup> June

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

10:20-10:50 Coffee Break

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

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

<b>Session 3:</b>	Session Chair: Enda Howley
<b>12:10-13:00</b>	
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)