ALA 2012 – Tentative Program

www.http://como.vub.ac.be/ALA2012/

Monday 4th June

09:00-09:05 Welcome & Opening Remarks

Session 1: 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-POMDPsInformed 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: 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: 12:10-13:00	
Invited Speaker	Prof. Mike Luck, King's College London

13:00-14:20 Lunch

Session 4: 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: 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: 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 Catteeuw and Bernard Manderick**. Emergence of Honest Signaling through Reinforcement Learning**

10:20-10:50 Coffee Break

Session 2: 10:50-12:00	
(SP)	Carrie Rebhuhn and Kagan Tumer. Fast **Multiagent Learning from Actions Not Taken for Heterogeneous Agents**
(SP)	Eunkyung 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: 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)