Monday, March 25, 2013

- 9:00 9:15 Opening and Welcome Eric Eaton, Bryn Mawr College (Chair)
- 9:15 10:30 Invited Talk: Rich Sutton, U. Alberta
- 10:30 11:00 Coffee break
- 11:00 12:00 Paper Presentations

Lifelong Machine Learning Systems: Beyond Learning Algorithms Daniel Silver, Qiang Yang & Lianghao Li

Information-Theoretic Objective Functions for Lifelong Learning Byoung-Tak Zhang

Towards Pareto Descent Directions in Sampling Experts for Multiple Tasks in an Online Learning Paradigm Shaona Ghosh, Chris Lovell & Steve Gunn

12:00 - 12:30 Discussion

- 12:30 2:00 Lunch break
- 2:00 3:10 Invited Talk: Jeff Dean, Google Large-Scale Learning from Multimodal Data
- 3:10 3:30 Paper Presentation

Learning Sensorimotor Concepts Without Reinforcement Yasser Mohammad and Toyoaki Nishida

3:30 – 4:00 Coffee break

4:00 – 5:00 Paper Presentations

Online Object Representation Learning and Its Application to Object Tracking Amirreza Shaban, Hamid R. Rabiee, Mehrdad Farajtabar & Mohsen Fadaee

Organizing Behavior into Temporal and Spatial Neighborhoods Mark Ring & Tom Schaul

Autonomous Selection of Inter-Task Mappings in Transfer Learning Anestis Fachantidis, Ioannis Partalas, Matthew E. Taylor & Ioannis Vlahavas

- 5:00 5:30 Discussion
- 5:30 6:00 Break
- 6:00 7:00 Reception

Tuesday, March 26, 2013

9:00 – 10:00 Invited Talk: Paul Ruvolo, Bryn Mawr Efficient Lifelong Machine Learning

10:00 – 10:30 Emerging Applications

A Feedback-enabled Machine Learning Approach for Multi-Engine Machine Translation (Short Paper) Christian Federmann

Applications of Lifelong Learning to the Google Knowledge Graph Terran Lane

10:30 - 11:00 Coffee break

11:00 – 12:00 Paper Presentations

Lifelong Learning of Structure in the Space of Policies Majd Hawasly & Subramanian Ramamoorthy

Automatic Abstraction in Reinforcement Learning Using Ant System Algorithm Nasrin Taghizadeh, Mohsen Ghafoorin & Hamid Beigy

Hashing for Lightweight Episodic Recall Scott Wallace, Evan Dickinson & Andrew Nuxoll

12:00 - 12:30 Discussion

12:30 – 2:00 Lunch break

2:00 – 2:10 Paper Presentation

The Consolidation of Task Knowledge for Lifelong Machine Learning (Short Paper) Daniel Silver

- 2:10 3:10 Invited Talk: Matthew Taylor, Washington State University Agents as Teachers and Learners
- 3:10 3:30 Organization of Working Sessions
- 3:30 4:00 Coffee break
- 4:00 5:30 Working Sessions
- 5:30 6:00 Break
- 6:00 7:00 Plenary Session

Wednesday, March 27, 2013

- 9:00 10:30 Reports by Working Session Leaders Discussion
- 10:30 11:00 *Coffee break*
- 11:00 12:30 Open discussion: Next steps toward lifelong machine learning