

## Workshop on Machine Learning for Interactive Systems (MLIS): Bridging the Gap Between Language, Motor Control and Vision

### Important Dates:

**May 28**, Paper submission deadline

**June 28**, Notification of acceptance

**July 22**, Camera-ready papers due

**Aug. 27/28**, Workshop

### Invited Speakers:

**Jeremy Wyatt**  
University of Birmingham, UK

**Oliver Lemon**  
Heriot-Watt University, Edinburgh, UK

### Organizing Committee:

**Heriberto Cuayáhuatl**  
DFKI Saarbrücken, Germany

**Lutz Frommberger**  
University of Bremen, Germany

**Nina Dethlefs**  
Heriot-Watt University, Edinburgh, UK

**Hichem Sahli**  
Vrije Universiteit Brussel, Belgium

Contact: [hecu01@dfki.de](mailto:hecu01@dfki.de)

### Call for Papers

This workshop aims to bring people together interested in natural language processing, motor control and computer vision with a unified perspective. This invitation is particularly directed to people designing, building, and evaluating machine learning interactive systems that interact with their environment, and particularly, the people within. The question of how to integrate language, motor control and vision in machine learning interfaces in an efficient and effective way has been a long-standing problem and is the main topic of the workshop.

**We would like to invite submissions in the area of machine learning that integrate some or all of language processing, motor control and computer vision for multimodal or robotic systems.**

### Programme Committee:

Tony Belpaeme, University of Plymouth, UK  
Maren Bennewitz, University of Freiburg, Germany  
Gary Bradsky, Willow Garage, USA  
Martin Butz, University of Tübingen, Germany  
Lola Cañamero, University of Hertfordshire, UK  
Paul Crook, Heriot-Watt University, UK  
Mary Ellen Foster, Heriot-Watt University, UK  
Konstantina Garoufi, University of Potsdam, Germany  
Milica Gašić, Cambridge University, UK  
Helen Hastie, Heriot-Watt University, UK  
Jesse Hoey, University of Waterloo, Canada  
Srinivasan Janarthanam, Heriot-Watt University, UK  
Filip Jurčiček, Charles University in Prague, Czech R.  
Simon Keizer, Heriot-Watt University, UK  
Kazunori Komatani, Nagoya University, Japan  
George Konidaris, MIT, USA  
Ivana Kruijff-Korbayová, DFKI GmbH, Germany  
Ramon Lopez de Mantaras, CSIC, Spain

### Topics include, but are not limited to:

- Reinforcement learning for interactive systems
- Supervised learning for interactive systems
- Unsupervised learning for interactive systems
- Hybrid machine learning for interactive systems
- Hierarchical machine learning for interactive systems
- Machine learning for multi-modal interactive systems
- Machine learning for multi-party interactive systems
- Machine learning for multi-lingual interactive systems
- Machine learning for emotional interactive systems
- Machine learning for reasoning in interactive systems
- Machine learning for user modeling in int. systems
- Machine learning for gesture-based int. systems
- Machine learning for vision-based int systems
- Evaluations of machine learning interactive systems
- All topics related to machine learning for avatars and interactive robots

### Submission Instructions:

Submissions can take two forms. Long papers should not exceed 6 pages and short papers should not exceed 2 pages. They should follow the general ECAI submission guidelines. Submissions should be made through the EasyChair system at

<http://www.sfbtr8.spatial-cognition.de/mlis-2012>

Pierre Lison, University of Oslo, Norway  
Iván V. Meza, UNAM, Mexico  
Roger Moore, University of Sheffield, UK  
Eduardo Morales, INAOE, Mexico  
Justus Piater, University of Innsbruck, Austria  
Olivier Pietquin, Supélec, France  
Matthew Purver, Mary Queen University London, UK  
Antoine Raux, Honda Research Institute, UK  
Verena Rieser, Heriot-Watt University, UK  
Raquel Ros, Imperial College London, UK  
Alex Rudnicky, CMU, USA  
Hiroshi Shimodaira, Edinburgh University, UK  
Danijel Skočaj, University of Ljubljana, Slovenia  
Enrique Sucar, INAOE, Mexico  
Martijn van Otterlo, Radboud University Nijmegen  
Jason Williams, Microsoft Research, USA  
Junichi Yamagishi, Edinburgh University, UK  
Hendrik Zender, DFKI GmbH, Germany