

*** 1st CALL FOR PAPERS ***

6th International Workshop on LOGICS, AGENTS, and MOBILITY (LAM'13),
2-5 April 2013, University of Exeter, United Kingdom organised as symposium
at the AISB Annual Convention 2013.

Organisers:

Berndt "Bertie" Müller (Farwer), University of Glamorgan Michael Köhler-
Bussmeier, University of Hamburg

Workshop Homepage: <http://lam2013.wordpress.com>

* Workshop Purpose *

The aim of this series of workshops is to bring together active researchers in the areas of logics and other formal frameworks on the one hand, and mobile systems on the other hand. The main focus is on the field of applications of logics and calculi for mobile agents, smart intelligent solutions and multi-agent systems. Many notions used in the theory of agents are derived from philosophy, logic, and linguistics (belief, desire, intention, speech act, etc.), and interdisciplinary discourse has proved fruitful for the advance of this domain. Outside of academia, the deployment of large-scale pervasive infrastructures (mobile ad-hoc networks, mobile devices, RFIDs, etc.) is becoming a reality. This raises a number of scientific and technological challenges for the software modelling and programming models for such large-scale, open and highly-dynamic distributed systems. The agent and multi-agent systems approach seems particularly adapted to tackle this challenge, but there are many issues remaining to be investigated. For instance, the agents must be location-aware since the actual services available to them may depend on their (physical or virtual) location. The quality and quantity of resources at their disposal is also largely fluctuant, and the agents must be able to adapt to such highly dynamic environments. Moreover, mobility itself raises a large number of difficult issues related to safety and security, which require the ability to reason about the software (e.g. for analysis or verification). Logics and type systems with temporal or other kinds of modalities (relating to location, resource and/or security-awareness) play a central role in the semantic characterisation and then verification of properties about mobile agent systems. There are still many open problems and research questions in the theory of such systems. The workshop is intended to showcase results and current work being undertaken in these areas with a focus on logics for specification and verification of dynamic, mobile systems.

The topics of interest lie in the area of logics and concurrent systems with a focus on the special application domain of mobile systems and (multi-)agent-based systems, such as:

- * Applications of logics and/or multi-agent systems
- * Smart/intelligent solutions
- * Models of concurrency
- * Models of resource-bounded systems
- * Models of location-based reasoning
- * Logics for concurrency with a perspective on mobility
- * Models of mobile systems
- * Verification and analysis techniques
- * Related programming models

Scopes of Interest

- * applications of MAS
- * logics for specification and reasoning about agents, MAS, and mobile systems

- * treatment of location and resources in logics
- * security (e.g., in ad-hoc networks)
- * temporal logics and model checking
- * type systems and static analysis
- * logic programming
- * concurrency theory with a focus on mobility or dynamics in agent systems.

* Previous Workshops *

LAM'08: 4-8 August 2008 at ESSLi in Hamburg, Germany

LAM'09: 10 August 2009 at LICS in Los Angeles, USA

LAM'10: 15 July 2010 at LICS in Edinburgh, Scotland, UK

LAM'11: 10 September 2011 at CONCUR in Aachen, Germany

LAM'12: 25 June 2012 at Petri Nets 2012, Hamburg, Germany

* Format of the Workshop *

The workshop will be held as a one day of the convention. There will be a short introduction and brief survey of the field by the organisers as an introduction to the workshop.

The workshop will contain invited talks, contributed talks, and will offer opportunities for discussion. The latter will give the participants a chance to discuss informally research directions, open problems, and possible co-operations.

* Invited Speakers *

[To be announced.]

* Submission details *

Authors are invited to submit a full paper of original work in the areas mentioned above. The workshop chair should be informed of closely related work submitted to a conference or journal in advance of submission. One author of each accepted paper will be expected to present it at the LAM'13 workshop. Submissions should not exceed 15 pages, preferably using the LaTeX article or LNCSS class. The following formats are accepted: PDF, PS.

Please send your submission electronically via EasyChair:

<http://www.easychair.org/conferences/?conf=lam13>

The submissions will be reviewed by the workshop's program committee and additional reviewers.

Accepted papers will appear in electronic proceedings and authors will be encouraged to re-submit papers to formal proceedings to be published as a separate publication, e.g. as a special journal issue.

* Important Dates *

Submission Deadline: 14th January 2013

Notification of acceptance/rejection: 11 February 2013 Final version of papers due: 4 March 2013

Workshop: 2-5 April 2013