

Languages, methodologies and Development tools for multi-agent systems, LADS'009

(Introductory Essay of the Workshop)

Mehdi Dastani*, Amal El Fallah Seghrouchni†, João Leite‡, and Paolo Torroni§

* Department of Information and Computing Sciences, Utrecht University,

Email: mehdi@cs.uu.nl

† LIP6 - University Pierre and Marie Curie,

Email: Amal.Elfallah@lip6.fr

‡ CENTRIA & DI, FCT, Universidade Nova de Lisboa

Email: jleite@di.fct.ul.pt

§ Dipartimento di Elettronica, Informatica e Sistemistica, Università di Bologna

Email: paolo.torroni@unibo.it

Abstract

LADS'09 aims to offer a rich forum for leading researchers, from both academia and industry, interested in sharing their experiences about the theory and practice of formal approaches, programming languages, tools and techniques that support the development and deployment of multi-agent systems. These are gaining increasing attention in important application areas such as electronic institutions, semantic web, web services, security, grid computing, ambient intelligence, pervasive computing, electronic contracting, among others.

I. INTRODUCTION

These are the pre-proceedings of the second international workshop on languages, methodologies and development tools for multi-agent systems (LADS'009) to be held on 7-11 September 2009 in Torino, Italy. LADS'009 workshop aims to address both theoretical and practical issues related to developing and deploying multi-agent systems. In particular, it will constitute a rich forum where leading researchers from both academia and industry share their experiences on formal approaches, programming languages, methodologies, tools and techniques that support the development and deployment of multi-agent systems. From theoretical point of view, LADS'009 aims to address issues related to theories, models, and approaches that are needed to facilitate the development of multi-agent systems ensuring their predictability and verifications. From practical point of view, LADS'009 aims at stimulating research and discussion on how multi-agent system specifications and designs can be effectively implemented and tested. LADS'009 workshop promises to provide interesting discussion and exchange of ideas concerning theories, methodologies, techniques and principles that are important for multi-agent programming technology. The programme of the workshop consists of four sessions and covers formal models and theories (session 1), development methodologies and tools (session 2), programming languages (sessions 3), and Architectures (session 4). More details on the programme can be found at: <http://centria.di.fct.unl.pt/events/lads009/>.

LADS'009 Programme Co-chairs

Mehdi Dastani
Amal El Fallah Seghrouchni
João Leite
Paolo Torroni

July 26, 2009

II. WORKSHOP COMMITTEES

A. *Workshop Organizers*

Mehdi Dastani	Utrecht University, The Netherlands
Amal El Fallah Seghrouchni	University of Paris VI, France
João Leite	Universidade Nova de Lisboa, Portugal
Paolo Torrioni	University of Bologna, Italy

B. *Programme Committee*

Marco Alberti	New University of Lisbon, Portugal
Natasha Alechina	University of Nottingham, UK
José Júlio Alferes	New University of Lisbon, Portugal
Matteo Baldoni	University of Torino, Italy
Rafael H. Bordini	Universidade Federal do Rio Grande do Sul, Brazil
Juan Botía	Murcia University, Spain
Lars Braubach	University of Hamburg, Germany
Keith Clark	Imperial College London, UK
Mehdi Dastani	Utrecht University, The Netherlands
Yves Demazeau	Institut IMAG, Grenoble, France
Juergen Dix	Clausthal University, Germany
Amal El Fallah Seghrouchni	University of Paris 6, France
Paolo Giorgini	University of Trento, Italy
Jorge Gómez-Sanz	Universidad Complutense Madrid, Spain
Koen Hindriks	Delft University, The Netherlands
Shinichi Honiden	NII, Tokyo, Japan
Jomi Fred Hübner	Universidade Regional de Blumenau, Brazil
Wojciech Jamroga	University of Luxembourg, Luxembourg
Peep Küngas	SOA Trader, Ltd., Tallin, Estonia
Joo Leite	New University of Lisbon, Portugal
John Lloyd	Australian National University, Canberra, Australia
Alessio Lomuscio	Imperial College London, UK
Viviana Mascardi	University of Genova, Italy
John-Jules Meyer	Utrecht University, The Netherlands
Alexander Pokahr	University of Hamburg, Germany
Patrick Tallibert	Thales Airborne Systems, Elancourt, France
Paolo Torrioni	University of Bologna, Italy
Birna van Riemsdijk	Delft University, The Netherlands
Leon van der Torre	University of Luxembourg, Luxembourg
Gerhard Weiss	Software Competence Center Hagenberg, Austria
Pinar Yolum	Bogazici University, Istanbul, Turkey
Yingqian Zhang	Delft University, The Netherlands

C. Additional Reviewers

Alejandro Guerra Hernandez, Matthias Nickles, Akin Gunay, Yasuyuki Tahara, Ozgur Kafali, Mario Mendes

III. LIST OF PAPERS

- Detecting Exceptions in Commitment Protocols: Discovering Hidden States
by *Ozgur Kafali and Pinar Yolum*
- A Methodology for Developing Self-Explaining Agents for Virtual Training
by *Maaïke Harbers, Karel Van den Bosch, and John-Jules Meyer*
- An Integrated Semantics of Social Commitments and Associated Operations
by *Jamal Bentahar, M El-Menshawy, and R. Dssouli*
- Externalisation and Internalization: A New Perspective on Agent Modularisation in Multi-Agent Systems Programming
by *Alessandro Ricci, Michele Piunti, and Mirko Viroli*
- Call Graph Profiling for Multi Agent Systems
by *Dinh Doan Van Bien, David Lillis, and Rem W. Collier*
- ReSeagent: A Refactoring Tool for Plan Level Refactoring in MAS Development
by *Ali Murat Tiryaki and Oguz Dikenelli*
- Programming social middlewares through social interaction types
by *Juan Manuel Serrano and Sergio Saugar*
- Temporal Planning in Dynamic Environments for P-CLAIM Agents
by *Adnan Hashmi and Amal El Fallah Seghrouchni*
- Agents Secure Interaction in Data driven Languages
by *Mahdi Zargayouna, Balbo Flavien, and Serge Haddad*
- Executing Agent Plans by Reducing to Workflows
by *Tayfun Gokmen Halac, Ovunc CETIN, Erdem Eser Ekinci, R. Cenk Erdur, and oguz dikenelli*
- The ARTS Real-Time Agent Architecture
by *Konstantin Vikhorev, Natasha Alechina, and Brian Logan*

IV. ACKNOWLEDGMENT

The co-chairs of this workshop would like to thank all authors, invited speakers, programme committee members, and additional reviewers for their outstanding contribution to the success of LADS'009. The co-chairs would also like to thank all the sponsors and Springer. We are particularly grateful to MALLOW'009 organisers, Matteo Baldoni, Cristina Baroglio, and Guido Boella, for their technical support and for hosting LADS'009.