



5th International Workshop on Declarative Agent Languages and Technologies (at AAMAS 2007)

Honolulu, Hawaii, May 14th or 15th, 2007

URL: <http://www.di.unito.it/~baldoni/DALT-2007/>

Call for Papers

The workshop on **Declarative Agent Languages and Technologies (DALT)**, in its fifth edition this year, is a well-established forum for researchers interested in sharing their experiences in **combining declarative and formal approaches with engineering and technology aspects of agents and multiagent systems**. Building complex agent systems calls for models and technologies that ensure predictability, allow for the verification of properties, and guarantee flexibility. Developing technologies that can satisfy these requirements still poses an important and difficult challenge. Here, declarative approaches have the potential of offering solutions satisfying the needs for both specifying and developing multiagent systems. Moreover, they are gaining more and more attention in important application areas such as the **semantic web, service-oriented computing, security, and electronic contracting**. For instance, some convergence points between the areas of formal methods for dealing with web services and formal methods for agents are emerging and gaining more and more attention.

DALT 2006 will be held as a satellite workshop of AAMAS 2007, the 6th International Joint Conference on Autonomous Agents and Multiagent Systems, in May 2006 in Honolulu, Hawaii. Following the success of three previous editions, DALT will again aim at providing a discussion forum to both (i) support the transfer of declarative paradigms and techniques to the broader community of agent researchers and practitioners, and (ii) to bring the issue of designing complex agent systems to the attention of researchers working on declarative languages and technologies.

Workshop organizers

- Matteo Baldoni, University of Torino, Italy
- Tran Cao Son, New Mexico State University, USA
- M. Birna van Riemsdijk, Ludwig-Maximilians-Universitaet Muenchen, Germany
- Micheal Winikoff, RMIT university, Australia

Programme Committee

- Marco Alberti, University of Ferrara, Italy
- Natasha Alechina University of Nottingham, UK
- Grigoris Antoniou, University of Crete, Greece
- Matteo Baldoni, University of Torino, Italy
- Cristina Baroglio, University of Torino, Italy
- Rafael Bordini, University of Durham, UK
- Keith Clark, Imperial College London, UK
- Ulle Endriss, University of Amsterdam, NL
- Benjamin Hirsch, TU Berlin, Germany
- Shinichi Honiden, NII, Japan
- John Lloyd, Australian National University
- Viviana Mascardi, University of Genova, Italy
- John Jules Ch. Meyer, University of Utrecht, NL
- Enrico Pontelli, New Mexico State University, USA
- Birna van Riemsdijk, Ludwig-Maximilians-Universitaet Muenchen, Germany
- Chiaki Sakama, Wakayama University, Japan
- Munindar Singh (North Carolina State University, USA)
- Tran Cao Son, New Mexico State university, USA
- Wamberto Vasconcelos, Univ. of Aberdeen, UK
- Mirko Viroli, University of Bologna, Italy
- Michael Winikoff, RMIT University, Australia

DALT topics of interest include, but are not limited to:

General themes:

- specification of agents and multi-agent systems
- declarative approaches to engineering agent systems

Formal techniques:

- (constraint) logic programming approaches to agent systems
- distributed constraint satisfaction
- modal and epistemic logics for agent modelling
- model checking agents and multiagent systems

Declarative models:

- declarative models of agent beliefs, goals, and capabilities
- declarative models of bounded rationality
- declarative paradigms for the combination of heterogeneous agents

- electronic institutions
- agent-inspired declarative approaches to web services or service-oriented architectures

Applications of declarative techniques to:

- agents and the semantic web
- service-oriented multiagent systems
- agent communication and coordination languages
- protocol specification and conformance checking
- description of contracts and negotiation policies
- security in multiagent systems

Evaluation of declarative approaches:

- experimental analysis of declarative agent technologies
- industrial experiences with declarative agent technologies

Proceedings

Printed copies of the proceedings will be available at the workshop. Assuming a sufficient number of high-quality submissions, we are again going to consider the publication of formal post-proceedings with an international publisher. The post-proceedings of DALT 2003 (LNAI 2990), DALT 2004 (LNAI 3476), DALT 2005 (LNAI 3904), and DALT 2006 (LNAI 4327) have been published by Springer-Verlag in the Lecture Notes in Artificial Intelligence series.

Submission instructions

We welcome and encourage the submission of high-quality, original papers, which are not being submitted simultaneously for publication elsewhere. Papers should be written in English, formatted according to the Springer LNCS style, and not exceed 16 pages. Paper submission is electronic via the conference home page.

Important dates

Submission deadline: February 5th, 2007

Notification of acceptance:

March 5th, 2007

Final versions due: March 19th, 2007

Workshop: May 14th or 15th, 2007