

# Dalt 2006

Hakodate # Japan

## 4<sup>th</sup> International Workshop on Declarative Agent Languages and Technologies (at AAMAS 2006)

Hakodate, Japan, May 8<sup>th</sup>, 2006

URL: <http://www.illc.uva.nl/~ulle/DALT-2006/>

### Call for Papers

The workshop on **Declarative Agent Languages and Technologies (DALT)**, in its fourth 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, web services, security, and electronic contracting**.

DALT 2006 will be held as a satellite workshop of AAMAS 2006, the 5th International Joint Conference on Autonomous Agents and Multiagent Systems, in May 2006 in Hakodate, Japan. 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. DALT topics of interest include, but are not limited to:

#### Workshop organisers

- Matteo Baldoni, University of Torino, Italy
- Ulle Endriss, University of Amsterdam, NL

#### 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, University of Utrecht, NL
- Chiaki Sakama, Wakayama University, Japan
- Wamberto Vasconcelos, Univ. of Aberdeen, UK
- Christopher Walton, University of Edinburgh, UK
- Michael Winikoff, RMIT University, Australia

#### Steering Committee

- João Leite, New University of Lisbon, Portugal
- Andrea Omicini, Univ. of Bologna – Cesena, Italy
- Leon Sterling, University of Melbourne, Australia
- Paolo Torroni, University of Bologna, Italy
- plnar Yolum, Bagazici University, Turkey

#### Important dates

**Submission deadline:** February 1<sup>st</sup>, 2006

**Notification of acceptance:**  
February 19<sup>th</sup>, 2006

**Final versions due:** March 10<sup>th</sup>, 2006

**Workshop:** May 8<sup>th</sup>, 2006

#### General themes:

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

#### Formal techniques:

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

#### Declarative models:

- declarative models of agent beliefs and capabilities
- declarative models of bounded rationality

#### 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) and DALT 2004 (LNAI 3476) have been published by Springer-Verlag in the Lecture Notes in Artificial Intelligence series; the post-proceedings of DALT 2005 are due to appear in 2006, also published by Springer-Verlag.

#### 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.

- declarative paradigms for the combination of heterogeneous agents
- electronic institutions

#### Applications:

- agents and the semantic web
- service-oriented multiagent systems
- agent communication and coordination languages
- protocol specification and conformance checking
- declarative 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