

# 17<sup>th</sup> International Workshop on Agent-Oriented Information Systems (AOIS-2007), June 11<sup>th</sup> 2007

In Conjunction with CAiSE 2007, June 11-15, Trondheim, Norway

## *Important Dates*

Abstract, title, and authors due: 26th of February 2007 (23:59 GMT)

Full Paper Submissions due: 1st of March 2007 (23:59 GMT)

Notification of Acceptance: 1st of April 2007 (23:59 GMT)

Camera Ready Submission: 15th of April 2007 (23:59 GMT)

To contact the organizing committee please send an email to [info@aois.org](mailto:info@aois.org).

## CALL FOR PAPERS

Information systems have become the backbone of all kinds of organizations today. In almost every sector - manufacturing, education, health care, government, and businesses large and small - information systems are relied upon for everyday work, communication, information gathering and decision-making. Yet, the inflexibilities in current technologies and methods have also resulted in poor performance, incompatibilities and obstacles to change. As many organizations are reinventing themselves to meet the challenges of global competition and e-commerce, there is increasing pressure to develop and deploy new technologies that are flexible, robust and responsive to rapid and unexpected change.

Agent-Oriented is emerging as a powerful new paradigm in computing. Concepts and techniques from the agent paradigm could well be the foundations for the next generation of mainstream information systems, which we might term "active computing". Agent concepts hold great promise for responding to the new realities of active information systems. They offer higher level abstractions and mechanisms that address issues such as knowledge representation and reasoning, communication, coordination, cooperation among heterogeneous and autonomous parties, perception, commitments, goals, beliefs, intentions etc. On the one hand, the concrete implementation of these concepts can lead to advanced functionalities, e.g., in inference-based query answering, transaction control, adaptive workflows, brokering and integration of disparate information sources, as well as automated communication processes. On the other hand, their rich representational capabilities allow for more faithful and flexible treatments of complex organizational processes, leading to more effective requirements analysis and architectural and detailed design. This also allows a natural way of considering mobility of information system users and the situation where information system activities span across multiple locations and organisations.

The workshop will focus on how agent concepts and techniques will contribute to meeting information systems needs today and tomorrow. The workshop encourages submissions on all topics related to AOIS, including (but not limited to) the following:

- \* agent-oriented modelling and design methods
- \* models and architectures for agent-oriented/active information systems
- \* novel information system technologies based on software agents
- \* agent-based requirements engineering
- \* agents and knowledge management

- \* agent-oriented approaches to data integration
- \* agent-based workflow modelling
- \* agent orientation and e-services
- \* agent orientation in web information systems
- \* agent-oriented enterprise and business process modelling
- \* agent communication languages for business communication
- \* ontologies and agents
- \* managing trust and reputation
- \* automated business-to-business interaction (including negotiation and contracting)
- \* agent orientation and human computer interaction

### **Paper Submission**

Submissions must conform to Springer's LNCS format and should not exceed 15 pages (including all text, figures, references and appendices). Submissions that do not conform to the LNCS format and/or that exceed 15 pages will be rejected without review.

Information about Springer LNCS format can be found at <http://www.springer.de/comp/lncs/authors.html>

There is a two stage submission system. In the first stage we ask authors to notify the workshop organizers of their intention to submit by emailing a title, list of authors (and corresponding author) and an abstract to [abstract@aois.org](mailto:abstract@aois.org) (please enter "Intention to submit for AOIS@CAiSE" in the subject field. In the second stage, we ask authors to send their full papers by emailing the PDF file to [submit@aois.org](mailto:submit@aois.org) (please enter "Submission for AOIS@CAiSE" in the subject field). Please note that the two emails (abstract and full paper) should be sent from the same email address and by the same author. This is to avoid confusion.

Workshop notes (copies of all accepted papers) will be made available to workshop participants. Following the conference, we intend to publish a post-proceedings for AOIS 2007 in the Springer LNCS series. [Similar post-proceedings for previous AOIS events are available in the LNCS series.]. For these post-proceedings, authors will be invited to extend their papers, which will be re-reviewed for the LNCS publication.

### **ORGANIZING COMMITTEE**

*Co-Chairs:*

#### **Paolo Bresciani**

Institute for Scientific and Technological Research (IRST), Trento, Italy

Email: [pb@aois.org](mailto:pb@aois.org)

Web page: <http://sra.itc.it/people/bresciani>

#### **Brian Henderson-Sellers**

Faculty of Information Technology, University of Technology, Sydney

P.O. Box 123, Broadway, NSW 2007, Australia,

Phone: +61 2 9514 1687

Fax: +61 2 9514 4535

Email: [brian@it.uts.edu.au](mailto:brian@it.uts.edu.au)

Web page: <http://www-staff.it.uts.edu.au/~brian>

**Haralambos Mouratidis**

School of Computing and Technology, University of East London, England

Email: [H.Mouratidis@uel.ac.uk](mailto:H.Mouratidis@uel.ac.uk)

Web page: <http://homepages.uel.ac.uk/H.Mouratidis>

*Steering Committee:*

Yves Lesperance, York University, Canada

Gerd Wagner, Eindhoven University of Technology, The Netherlands

Eric Yu, University of Toronto, Canada

Paolo Giorgini, University of Trento, Italy