

## EXTENDED CALL FOR PAPERS

The Workshop on  
Service-Oriented Computing: Agents, Semantics, and Engineering (SOCASE 2007)

[www.ict.swin.edu.au/conferences/socase2007](http://www.ict.swin.edu.au/conferences/socase2007)

to be held at

The Sixth International Joint Conference on  
Autonomous Agents and Multiagent Systems (AAMAS 2007)  
Hawaii Convention Center in Honolulu, Hawai'i.

May 14-18, 2007

[www.aamas2007.org](http://www.aamas2007.org)

### DESCRIPTION

The purpose of this workshop is to present and discuss the recent significant developments at the intersections of Multiagent Systems, Semantic Technology, and Service-oriented Computing, and to promote cross-fertilization of techniques. In particular, the workshop aims at identifying techniques from Multiagent System and Semantic Technology research that will have the greatest impact on automating Service-oriented application construction and management, focusing on critical challenges such as service quality assurance, reliability, and adaptability.

The Service-Oriented Computing: Agents, Semantics, and Engineering workshop (SOCASE) continues the theme of previous SOCABE workshop successfully held at AAMAS'06, AAMAS'05 and WSABE workshops held at AAMAS'04 and AAMAS'03, with an expanded theme reflecting the wide spectrum of issues of the cross section between agent-based and Service-oriented paradigms.

SOCASE 2007 is organized by an extended Organizing Committee giving the workshop an additional focus on research in ontology-related topics of Service-oriented Multiagent Systems.

### TOPICS

We invite papers on all aspects relating to the overlap of Agent Technology, Semantic Technologies, and Service-oriented Computing. Topics of interest include, but are not limited to:

- \* Agent-oriented architectures, frameworks, and infrastructures for distributed Service-oriented software and Semantic Web systems
- \* Agent-oriented modeling and design methods and tools for Service-oriented software and Semantic Web development
- \* Web services and Semantic Web technologies and standards for Multiagent System design and development
- \* Agent-based service description, advertisement, matchmaking, discovery, and brokering

- \* Agent-based service composition, orchestration, and choreography
- \* Agent-based negotiation and management of Quality of Service and Service Level Agreements
- \* Deployment and distribution of agent-based service systems and Service-oriented agent systems
- \* Agent-based service business models, application scenarios and demos (e.g. in e-Business, e-Science, Enterprise, Telecom etc.), and lessons learnt
- \* Ontology matching for service discovery, negotiation, orchestration, composition, and execution
- \* Ontology learning and ontology reasoning
- \* Ontology-oriented dynamic mediation among agents
- \* Information retrieval and semantic integration by agents
- \* Automatic generation of ontologies

## SUBMISSION AND PUBLICATION

Submission is to be done electronically on [www.ict.swin.edu.au/conferences/socase2007](http://www.ict.swin.edu.au/conferences/socase2007).

Submitted papers should be formatted according to ACM specifications. ACM style guides, as well as templates and style sheets for Microsoft Word, WordPerfect, and LaTeX can be found on <http://www.acm.org/sigs/pubs/proceed/template.html>.

Two types of submissions are available: regular submissions of length 3000-4000 words (approx. 8-12 printed pages) and position papers of length 1200-2000 words (approx. 4-6 printed pages).

The only formats allowed for electronic submission are PostScript or PDF. Papers will not be accepted in any other format (e.g., MS Word). However, we strongly encourage the submission in PDF format.

Deadline for workshop papers is February 15, 2007, midnight -Hawaii time-

Submissions will be peer-reviewed by three reviewers per paper. Selection criteria will include: relevance, significance, impact, originality, technical soundness, and quality of presentation. Some preference may also be given to papers which address emergent trends or important common themes, or which enhance balance of workshop topics. Since this is associated with the AAMAS conference, accepted papers must be of real relevance to the Multiagent research community.

Notification of acceptance or rejection of submitted papers will be mailed to the first author by March 5, 2007. Note that at least one author of each accepted paper is required to register and to attend the workshop in order to present the work. Accepted papers will be made available in electronic form prior to the workshop and a printed collection will be available at the workshop. As exercised with previous workshops' best papers, the SOCASE 2007 workshop proceedings may form the basis of a journal special issue, subject to appropriate number and quality of submissions.

## IMPORTANT DATES

|                   |                                 |
|-------------------|---------------------------------|
| February 15, 2007 | workshop paper submission       |
| March 5, 2007     | notification of accepted papers |
| March 19, 2007    | camera-ready paper submission   |
| March 26, 2007    | workshop proceedings submission |
| May 14-15, 2007   | AAMAS-2007 workshops            |

## WORKSHOP FORMAT AND ATTENDANCE

The workshop will aim to foster discussion and develop action outcomes on key issues relating to designing, building, and managing systems using software agents, ontologies, and services. In addition to regular presentations, a number of discussion panels on identified important themes are also planned.

Attendance may be restricted by the venue. A separate call for participation will be distributed at about the time of acceptance notification. If attendance needs to be limited then preference will be given first to presenters and next to other authors who submitted.

## ORGANIZING COMMITTEE

|                     |   |
|---------------------|---|
| Jingshan Huang      | University of South Carolina, USA             |
| Ryszard Kowalczyk   | Swinburne University of Technology, Australia |
| Zakaria Maamar      | Zayed University Dubai, United Arab Emirates  |
| David Martin        | SRI International, USA                        |
| Ingo Mueller        | Swinburne University of Technology, Australia |
| Suzette Stoutenburg | The MITRE Corporation, USA                    |
| Katia Sycara        | Carnegie Mellon University, USA               |

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| Chirine Ghedira          | University Claude Bernard Lyon 1, France              |

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| Pavel Shvaiko             | University of Trento, Italy                     |
| Suzette Stoutenburg       | The MITRE Corporation, USA                      |
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