

## CALL FOR PAPERS

### The Workshop on SERVICE-ORIENTED COMPUTING AND AGENT-BASED ENGINEERING (SOCABE 2006)

<http://www.ict.swin.edu.au/conferences/socabe2006/>

to be held at

The Fifth International Joint Conference on  
Autonomous Agents & Multi-Agent Systems  
AAMAS 2006

<http://www.fun.ac.jp/aamas2006/>

Future University Hakodate, Japan

8 – 12 May 2006

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#### DESCRIPTION

Service-Oriented Computing (SOC) is an emerging paradigm for distributed computing and e-business processing that utilizes services as fundamental elements to enable building agile networks of collaborating business applications distributed within and across organizational boundaries. Services are self-contained, platform-independent computational elements that can be described, published, discovered, orchestrated and deployed for the purpose of developing distributed applications across networks such as the Internet. Current approaches include Web services, Semantic Web services, and Grid services, which are used to build distributed applications on the Web, Semantic Web, and Grid, respectively.

While a service need not fulfil all characteristics of a strong definition of agency, the SOC approach to building complex software systems bears many similarities to the engineering process of a collection of software agents. In particular, large systems are assembled from distributed heterogeneous software components providing specialized services and communicating using agreed-upon protocols. Similarly to certain multi-agent engineering paradigms, the design process of such systems focuses on the declarative characterization of the agents' capabilities and on a message-based paradigm of interoperation. Also similarly to multi-agent systems, management of service provision processes is dynamic and distributed, and takes into account requirements both at the level of individual services and the system-wide level of the composed application. It also needs to be adaptive in response to changing requirements, services and exceptions in the dynamic Web and Grid environments.

The area of Service-Oriented Computing offers much of real interest to the Multi-Agent System community, including similarities in system architectures and provision processes, powerful tools, and the focus on issues such as quality of service, security and reliability. Similarly, techniques developed in the MAS research community promise to have a strong impact on this fast growing technology.

The Service-Oriented Computing and Agent-Based Engineering (SOCABE) workshop continues the theme of the previous SOCABE workshop held at AAMAS'05 and the WSABE workshops held at AAMAS'03 and AAMAS'04, with an expanded theme reflecting the breadth of issues associated with the Service-Oriented Computing paradigm.

## TOPICS

The purpose of this workshop is to discuss the recent and significant developments in the general area of Service-Oriented Computing and Software Agents and to promote cross-fertilization of techniques. We seek original and high quality submissions that apply multi-agent research to Web service frameworks and vice versa in innovative and interesting ways. Possible topics include, but are not limited to:

- \* Architectures and infrastructure for distributed agent- or service-oriented frameworks;
- \* Agent-based modelling and design techniques in service-oriented system development;
- \* Multi-agent techniques for describing, organizing, and discovering services;
- \* Process modelling and planning for service/agent composition, orchestration and coordination;
- \* Security support for agents and services, and agent-based approaches to service security;
- \* Intelligent matchmaking, service brokering and service level agreement negotiation;
- \* Services and the Semantic Web, including initiatives such as OWL-S;
- \* Deployment, packaging, and distribution of services and software agents;
- \* Agent-based quality of service management;
- \* Intelligent services and service agents;
- \* Agent and service interoperability and integration;
- \* Functional and non-functional aspects of agents and services;
- \* Agent-based service business models and applications (e.g. in e-Business, e-Science, Enterprise, Telecom etc.)

## SUBMISSION AND PUBLICATION

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). Position papers (and some regular papers) may be presented as part of themed discussion panels; preference may be given to position papers that take strong or challenging positions on important emergent topics.

Full papers must not exceed 15 pages and follow the author instructions of Springer-Verlag that can be found at <http://www.springer.de/comp/lncs/authors.html>. All papers should be in Adobe portable document format (PDF) or PostScript format (PS). Authors should submit a full paper via electronic submission to [imueller@ict.swin.edu.au](mailto:imueller@ict.swin.edu.au).

Submissions will be peer-reviewed by multiple reviewers. Selection criteria will include: relevance, significance, impact, originality, technical soundness, 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 multi-agent research community.

Accepted papers will be made available in electronic form prior to the workshop and a printed collection will be available at the workshop. The best papers from the previous SOCABE2005 workshop are being selected for publishing with Springer LNCS, and the former WSABE2003 workshop formed the basis of a volume in Kluwer's MASA Series (<http://www.wkap.nl/prod/s/MASA>); the proceedings of SOCABE2006 may also be used as basis of a published volume, subject to appropriate quality.

#### IMPORTANT DATES

Submissions due	February 1, 2006
Notifications sent	February 19, 2006
Final papers due	March 9, 2006
Workshop	May 9, 2006

#### 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 services and software agents. 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.

#### ORGANISING COMMITTEE

Ryszard Kowalczyk	Swinburne University, Australia	(point of contact)
Zakaria Maamar	Zayed University, UAE	
David Martin	SRI International, USA	
Ingo Mueller	Swinburne University of Technology, Australia	

## PROGRAMME COMMITTEE

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