

CALL FOR PAPERS

The International Workshop on Intelligent Service Management (ISM 2010)
<http://www.enase.org/ISM.htm>

22 - 24 July 2010, Athens – Greece

In conjunction with the 5th International Conference on Evaluation of Novel Approaches to Software Engineering - ENASE 2010 (<http://www.enase.org/>) and the 5th International Conference on Software and Data Technologies – ICSoft 2010 (<http://www.icsoft.org>)

Description & Motivation

Service-oriented computing (SOC) has emerged as the most promising design paradigm for distributed information systems. SOC specifies services as the basic building blocks for autonomous business or technical functionality provides means of achieving a separation of concerns, supporting functions of both integration and infrastructure management and offers promising opportunities for organizing and managing IT infrastructures in dynamic business and information systems. With its set of design principles, architectural models and concepts and last but not least with its existing set of standards, it promotes adaptive service management concepts and flexible and re-configurable service provisioning. The vision of service-oriented computing is to capture business relevant functionalities of existing software systems as services and use service composition to form composite applications. While this vision has yet to be achieved in practise, in particular the application of intelligent systems and techniques promises significant advancements for an adaptive and reliable construction and management of service-oriented applications and systems.

The purpose of the workshop is to present and discuss recent significant developments at the intersections of service-oriented computing and intelligent systems and technologies, and to promote cross-fertilization of ideas and techniques between these fields. In particular, the workshop focuses on techniques from multiagent systems and artificial intelligence research for an automated construction and management of serviceoriented applications/composite services. This includes critical challenges such as agent-based service composition management, self-managed service compositions, intelligent management of service quality concerns, adaptive and reliable evolution and optimization of services.

The relation to ENASE 2010/ICSOFT 2010 is that, on the one hand, the conference addresses promising concepts such as service-oriented architectures, multi-agent systems, service science, management and engineering, and application integration technologies that are highly relevant for research in intelligent service management and on the other hand, would receive feedback and requirements from developments at the intersections of service-oriented computing and intelligent systems and technologies to enhance and validate current approaches.

Topics

In particular, we are inviting papers on the following topics:

Service representation and formalization

- Service modeling and analysis
- Service design and engineering
- Integrating business service models with electronic service models
- Repositories and dictionaries for services
- Semantic annotation of services and Service Level Agreements

Intelligent service management and coordination

- Intelligent techniques for determining quality requirements for service systems
- Intelligent deployment, monitoring, control and exception-handling for service execution and delivery
- Agent-based negotiation and management of service quality aspects
- Intelligent Service Level Agreement lifecycle management mechanisms (development, negotiation, deployment, monitoring, compliance evaluation, termination)
- Intelligent adaptation, evolution, and optimization of services and processes
- Intelligent management frameworks and platforms for service-oriented computing
- Intelligent service composition, orchestration, and choreography

- Self-managed service compositions and processes that exhibit intelligent adaptive and autonomic properties
 - Integration and management of agent-based services and service-oriented agents
 - Resource models for intelligent management of specific QoS requirements
 - Intelligent management of the QoS mapping between business processes and the underlying SOA-based systems
 - Autonomic and intelligent QoS management in SOA-based systems
 - Services for managing decentralized services
 - Negotiation protocols for intelligent service management
 - Simulation and optimization of services
- Case studies and demos
- Applications and case studies on intelligent service management
 - Innovative research prototypes and demonstrators
 - Empirical research on intelligent service management

Key dates

Submission Deadline: 06 April 2010
 Notification of Acceptance: 04 May 2010
 Final Paper Submission and Registration: 19 May 2010
 Workshop: during 22-24 July 2010

Submission and publication

Authors are invited to submit original, previously unpublished research papers. Papers should be written in English and must not exceed 12 pages, strictly following Springer LNCS style (<http://www.springer.de/comp/lncs/authors.html>) including all text, references, appendices, and figures. Please refer to the ENASE Paper Formats, Submission and Publication Guidelines (http://enase.org/Pformat_sub_pub.htm). Please, submit papers via the PRIMORIS conference management tool in PDF format (<http://www.insticc.org/primoris>).

For submission, authors are supposed to register with PRIMORIS conference management tool (<http://www.insticc.org/primoris>), create an entry of their intended full paper submission, and upload their paper until paper submission deadline.

All submissions will be peer-reviewed by members of the international program committee. Paper acceptance will be based on contribution, originality/novelty, technical depth/merit, and quality of presentation. Accepted papers will be included in the workshop proceedings, and circulated to participants prior to the event. Workshop proceedings are planned to be published in a Springer LNCS volume subject to the quality of submissions. A selection of best papers will also be invited to submit extended and enhanced versions of the papers to a special issue of a major international journal.

At least one author of an accepted paper must register and participate in the workshop. Registration is subject to the terms, conditions and procedure of the ENASE conference to be found on their website <http://enase.org>.

History

The 1st International Workshop on Intelligent Service Management 2009 was held successfully as part of the SABRE 2009 (SOFTWARE, AGENTS AND SERVICES FOR BUSINESS, RESEARCH, AND E-SCIENCES) conference on 24 March 2009, Leipzig, Germany (https://sabreconference.wifa.uni-leipzig.de/frontend/index.php?page_id=591).

Program chairs and organizing committee

André Ludwig (University of Leipzig, Germany)
 Ryszard Kowalczyk (Swinburne University of Technology, Australia)

Program committee

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Supporters

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- University of Leipzig, Germany
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