



Association for Information Systems

The premier global organization for academics specializing in Information Systems.

Special Interest Group on Agent-Based Information Systems

IGABIS Track at: AMCIS Americas Conference on Information Systems 2008, August 14-17, Toronto, Ontario, Canada

<http://www.business.mcmaster.ca/amcis2008/>

Track: "Intelligent Agent and Multi-Agent Systems in Business"

SIGABIS is proud to support a mini-track on agent-based information systems, which is chaired by Vijay Sugumaran (Oakland University, Rochester, MI; sugumara@oakland.edu) and Stefan Kirn (University of Hohenheim, Stuttgart, Germany; kirn@uni-hohenheim.de). Vijayan and Stefan are organizing this event for the fifth time.

AMCIS 2008, Toronto, Ontario, Canada

Mini-Track: Intelligent Agent and Multi-Agent Systems in Business

Chair: Vijayan Sugumaran, Oakland University

Intelligent agent technology has been one of the most important, and rapidly advancing areas in Information Technology. There is a tremendous explosion in the development of agent-based applications and multi-agent systems in a variety of fields such as electronic commerce, supply chain management, resource allocation, intelligent manufacturing, mass customization, industrial control, information retrieval and filtering, collaborative work, mobile commerce, decision support, simulation, and healthcare. While research on various aspects of intelligent agent technology and its application is progressing at a very fast pace, this is only the beginning. There are still a number of issues that have to be explored in terms of agent design, implementation, integration, and deployment. For example, salient characteristics of agents in different domains, formal approaches for agent-oriented modeling, designing and implementing agent-oriented information systems, agent collaboration and coordination in multi-agent systems, and organizational impact of agent-based systems are some of the areas in need of further research.

The purpose of this mini-track is to provide a forum for academics and practitioners to identify and explore the issues, opportunities, and solutions related to intelligent agent modeling, design, implementation, integration and deployment. Increasing number of agent-based systems are being developed in different application domains employing a variety of techniques. This mini-track is intended to increase cross-fertilization of ideas from these domains, and share the lessons learned. Building on its success in the last six years, this mini-track is expected to serve as the spring-board for gathering and disseminating experiences gained in implementing



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and integrating multi-agent systems in an industrial setting. It further aims at integrating relevant research initiatives in agents such as DARPA-sponsored programs, and new European research initiatives in the 7th EU Framework Program.

Best papers from this mini-track will be fast tracked for publication in a special issue of the **International Journal of Intelligent Information Technologies (IJIT)**. More information about the journal can be found [here](#) and the complimentary inaugural issue can be downloaded from [here](#).

Possible Topics may include, but not limited to:

- Intelligent Applications in Business
- Distributed Intelligent Systems
- Information agents
- Semantic Web and Intelligent Agents
- Agent architectures and behavior models
- Models and architectures for agent-oriented information systems
- Agent-based software engineering
- Multi-agent systems and applications
- Agent collaboration, and coordination
- Agent communication languages
- Human and agent interaction models
- Agent-based process and workflow systems
- Agents and knowledge management
- Agent-based manufacturing systems
- Agent-based active decision support systems
- Agent-based procurement and logistics systems
- Agent-based command and control systems
- Agent-based monitoring systems
- Agent-based simulation
- Agent-based economics
- Agent-based e-commerce applications
- Agent Standards
- Mobile Agents
- Ontologies and agents
- Ontology Engineering and Grid Computing
- Agents and web data mining
- Multiagent technology and grid computing



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- Architectures, environments and languages for e-commerce agents
- Automated shopping and trading agents
- Agent-based auction and negotiation in e-commerce
- Agent building tools and environments
- Privacy, security, and trust issues in agent-based e-commerce environments
- Organizational impact of agent-based systems
- Case studies



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