

SIGABIS Exchanges,

an official publication of the Association for Information Systems (AIS)
Special Interest Group on
Agent-based Information Systems (SIGABIS)

Volume 3, Issue 2

December 5th, 2005
Short ICIS '05 Version

SIGABIS
www.agentbasedis.org

History

This SIG was founded by Chris Schlueter Langdon and Riyaz Sikora and is one of the first six officially sanctioned groups announced in ISWORLD in July 2001.

Officers

Chris Schlueter Langdon
[Co-founder/chair, Web site, SIGABIS editor] (USC CTM)

Riyaz Sikora
[Co-founder/chair, INFORMS] (U of Texas at Arlington)

Selwyn Piramuthu, University of Florida
[VP of Finance] (U of Florida)

Vijay Sugumaran
[VP of AMCIS] (U of Oakland)

Board of Advisors

Prof. John H. Holland, Honorary Member
(U of Michigan, Santa Fe Institute, World Economic Forum)

Prof. Steven O. Kimbrough
(The Wharton School, University of Pennsylvania)

Prof. Dan O'Leary
(USC Marshall School of Business)

Prof. Mike J. Shaw
(University of Illinois at Urbana-Champaign)

SIGABIS: An Introduction

History

The Special Interest Group on Agent-Based Information Systems (SIGABIS) is affiliated with the Association for Information Systems (AIS), the premier global organization for academics specializing in Information Systems. Our Web site went live in 2002, and 2003 was our first year of operations.

Purpose

The **agent metaphor** has become popular in mainstream computing and business

schools largely due to its suitability for the study of distributed systems, such as the Internet and the Web.

We expect to see the emergence of new **distribution channel structures** and **customer interfaces** (e.g., 1-to-1 customization, recommendation 'engines'), **supply chain topologies** (e.g., virtual business networks), and **market-making mechanisms** that use new kinds of intelligent, distributed computational processes in the form of agents.

Mission

SIGABIS is a forum to bring together like-minded researchers and practitioners to:

- Collaborate in rigorously building agent-based computational theory and practice.
- Promote the advantages of agent-based computational modeling.
- Advance scientific research in areas that can benefit from agent-based techniques. (csl)

Calls for Papers + Work in Progress + Upcoming Events

Call for Papers:

- (1) Track at **AMCIS 06** Americas Conference on IS 2005, August 4-6, Acapulco, Mexico; Co-Chairs: Vijayan Sugumaran, Oakland University, and Stefan Kim, University of Stuttgart/Hohenheim
- (2) Track at **WeB 06**, the 5th, pre-ICIS Workshop on E-Business 2005, December 8-9, Milwaukee; Deadlines: To be announced; Co-Chairs: Riyaz Sikora and Chris Langdon
- (3) Please check Web site for updates.

Upcoming Events:

- (1) Track at **INFORMS 05**, Annual Meeting, November 16, San Francisco, CA; Chair: Riyaz Sikora
- (2) Track at **WeB 05**, the 4th, pre-ICIS Workshop on E-Business 2005, December 9-10, Las Vegas, NV; Deadlines: To be announced; Co-Chairs: Riyaz Sikora and Chris Langdon

Announcement:

In order to continue to grow SIGABIS while maintaining the high quality of events new officers have been added.

Please welcome our new SIGABIS officers.

VP of Finance: Selwyn Piramuthu, University of Florida. Selwyn is an expert with a strong publishing record that includes top IS Journals, such as *ISR*.

VP of AMCIS Meeting: Vijay Sugumaran, University of Oakland. Vijay has been a prolific contributor. He is also the founding editor of *IJIT*.

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The Association for Information Systems (AIS) is "the premier global organization for academics specializing in Information Systems" (www.aisnet.org).

SIGABIS @ AMCIS 05, Omaha, NE

ABIS 1: INTERFACE AND LEARNING AGENTS

Chair: Victoria Yoon, UMBC

"Learning Agents For Dynamic Supply Network Management,"
Gavin R. Finnie, Bond University, Jeff Barker, Bond University

"An Exploratory Investigation of the Self Serving Biases of Interface Agent Users," Alexander Serenko, Mihail Cocosila, all DeGroot School of Business, McMaster University

"Natural Language Interface for a Multi Agent System," Victoria Yoon, UMBC, Bonnie Rubenstein Montano, Georgetown University, Teresa Wilson, UMBC, Stuart Lowry, Science Applications Int. Corp.

ABIS 2: AGENT-BASED APPLICATION DEVELOPMENT

Chair: Vijayan Sugumaran, Oakland University

"The ADAPT Toolkit-Supported Engineering Process For Agent Based Applications," Rainer Herrler, University of Würzburg, Christian Heine, University of Hohenheim

"Agent Enabled Composition Of Services Bundles For M-Commerce Applications," Thomas Leary, Al Salam, Rahul Singh, all University of North Carolina

"Development of a Web Service Agent-based Family Wealth Management System," Shijia Gao, Dongming Xu, Yingfeng Wang, Huaqing Wang, all City University of Hong Kong

ABIS 3: PRIVACY, TRUST, SIMULATION, AND AGENTS

Chair: Dawn Jutla, St. Mary's University

"Privacy Agents and Ontology for the Semantic Web," Dawn N. Jutla, Saint Mary's University, Liming Xu, Dalhousie University

"A Conceptual Trust Framework for Semantic Web Agents," Todd Kowalczyk, The Hartford, Gregory W. Hislop, Drexel University, Heidi J. C. Ellis, Rensselaer at Hartford

"Agent Based Modeling and Simulation of Causal Maps," Douglas A. Druckenmiller, William Acar, Marvin Troutt, all Kent State U

ABIS 4: AGENT-BASED ONLINE AUCTION AND NEGOTIATION

Chair: YongSeog Kim, U of Iowa

"Bidding Agents in Online Auctions: What are they doing for the principal?," Gilbert G. Karuga, University of Kansas, Sasidhar Maganti, University of Kansas

"Bilateral Price Negotiations by Software Agents - A Model for Measuring Marketplace-Related Negotiation Behavior," Stefan Sackmann, University of Freiburg, Germany

"An Optimal Auction Infrastructure Design: An Agent-based Simulation Approach," Yongseog Kim, Utah State University

SIGABIS @ INFORMS 05, SF, CA

AI CLUSTER

TRACK: MULTI-AGENT SYSTEM APPLICATIONS

Chair: Riyaz Sikora, University of Texas at Arlington

"Foraging for Trust: Exploring Rationality and the Stag Hunt Game"

Author: Steve O. Kimbrough, Wharton School of Business, Univ. of Pennsylvania,

Abstract: Trust presents a number of problems and paradoxes, because existing theory is not fully adequate for understanding why there is so much of it, why it occurs, and so forth. This paper explores the generation of trust with two simple, but very different models, focusing on repeated play of the Stag Hunt game. A gridscape model examines creation of trust among cognitively basic simple agents. A Markov model examines play between two somewhat more sophisticated agents.

"An Application for Discrimination with Strategic Behavior"

Authors: Fidan Boylu, Haldun Aytug, and Gary Koehler, University of Florida

Abstract: Rational agents subject to classification by a principal might attempt to influence the classification as in loan decision situations where an agent might try to increase his chances of being accepted by altering his true attribute values. Exploring this strategic gaming, we apply our results to a credit-risk evaluation dataset.

"Learning Optimal Seller Policy: Application of Reinforcement and Evolutionary Learning"

Authors: Riyaz Sikora and Vishal Sachdev, University of Texas at Arlington

Abstract: We consider the problem, recently reported in the literature, of homogeneous sellers of a single raw material or component vying for business from a single large buyer. Standard game-theoretic analysis of the problem assumes completely rational and omniscient agents to derive equilibrium seller policy. We relax those assumptions and present simple reinforcement and evolutionary learning agents that learn near-optimal seller policies.

(csl)

Impressum

SIGABIS Exchanges is the official newsletter of the Association for Information Systems (AIS) Special Interest Group on Agent-based Information Systems.

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