Intelligent, Adaptive and Reasoning Technologies: New Developments and Applications

Vijayan Sugumaran (Oakland University, USA)

The advent of the World Wide Web has sparked renewed interest in the area of intelligent information technologies. There is a growing interest in developing intelligent technologies that allow users to accomplish complex tasks in Web-centric environments with relative ease, utilizing such technologies as intelligent agents, distributed computing in heterogeneous environments, and computer supported collaborative work.

Intelligent, Adaptive and Reasoning Technologies: New Developments and Applications is a comprehensive collection of work from researchers in related fields such as information systems, distributed AI, intelligent agents, and collaborative work that explores and discusses various aspects of design and development of intelligent technologies. This book provides a forum for academics and practitioners to explore research issues related to not only the design, implementation and deployment of intelligent systems and technologies, but also economic issues and organizational impact.

Topics Covered:
- Agent-Based Auction, Contracting, Negotiation, and E-Commerce
- Agent-Based Control and Supply Chain
- Agent-Based Simulation and Application Integration
- Cooperative and Collaborative Systems
- Distributed Intelligent Systems
- Human-Agent Interaction
- Implementation, Deployment, Diffusion, and Organizational Impact
- Integrating Business Intelligence from Internal and External Sources
- Intelligent Agent and Multi-Agent Systems

Vijayan Sugumaran is Professor of Management Information Systems in the Department of Decision and Information Sciences at Oakland University, Rochester, Michigan, USA. He is also a Visiting Professor in the Department of Service Systems Management and Engineering at Sogang University, Seoul, South Korea. He received his PhD in Information Technology from George Mason University, Fairfax, VA. His research interests are in the areas of service science, ontologies and Semantic Web, intelligent agent and multi-agent systems, component based software development, and knowledge-based systems. His most recent publications have appeared in Information Systems Research, ACM Transactions on Database Systems, IEEE Transactions on Education, IEEE Transactions on Engineering Management, Communications of the ACM, Healthcare Management Science, and Data and Knowledge Engineering. He has published over 140 peer-reviewed articles in Journals, Conferences, and Books. He has edited eight books and two journal special issues. He is the editor-in-chief of the International Journal of Intelligent Information Technologies and also serves on the editorial board of seven other journals. He was the program co-chair for the 13th International Conference on Applications of Natural Language to Information Systems (NLDB 2008). In addition, he has served as the chair of the Intelligent Agent and Multi-Agent Systems mini-track for Americas Conference on Information Systems (AMCIS 1999 - 2010) and Intelligent Information Systems track for the Information Resources Management Association International Conference (IRMA 2001, 2002, 2005 - 2007). He served as Chair of the E-Commerce track for Decision Science Institute’s Annual Conference, 2004. He was the Information Technology Coordinator for the Decision Sciences Institute (2007-2009). He also regularly serves as a program committee member for numerous national and international conferences.
Section 1: Semantics and Reasoning

Chapter 1
Improving Domain Searches through Customized Search Engines
Chua Cecil Eng Huang (University of Auckland, New Zealand)
Chiang Roger Huang-Li (University of Cincinnati, USA)
Stoney Veda C. (Georgia State University, USA)

Chapter 2
A Framework to Analyze User Interactions in an E-Commerce Environment
Thomas Manoj (Virginia Commonwealth University, USA)
Redmond Richard (Virginia Commonwealth University, USA)

Chapter 3
Semantic Web Service Composition with Case Based Reasoning
Thakker Dhavalkumar (Press Association, UK)
Osman Taha (Nottingham Trent University, UK)
Al-Dabass David (Nottingham Trent University, UK)

Chapter 4
Semantic Evaluation of Product Ontologies
Leukel Joerg (University of Hohenheim, Germany)
Sagunmaran Vijayan (Oakland University, USA & Sogang University, Seoul, Korea)

Chapter 5
Discovery Process in a B2B Marketplace
DY Azubertee Fergle (Flint Transfield Services Ltd (FT SERVICES), Canada)
Iyer Lakshmi S. (The University of North Carolina at Greensboro, USA)
Ehrhardt Richard (The University of North Carolina at Greensboro, USA)
Singh Rahul (The University of North Carolina at Greensboro, USA)

Chapter 6
Organizational Semiotics Complements Knowledge Management:
Schiffel Jeffrey A. (The Boeing Company, USA)

Section 2: Agent-Based Systems

Chapter 7
negotiation behaviors in agent-based negotiation support systems
Agrawal Manish (University of South Florida, USA)
Chari Kaushal (University of South Florida, USA)

Chapter 8
Agent, Availability Awareness, and Decision Making
Russell Stephen (George Washington University, USA)
Yoon Victoria (University of Maryland, Baltimore County, USA)

Chapter 9
Evaluation of Fault Tolerant Mobile Agents in Distributed Systems
H. Hamidi (University of Isfahan, Iran)
A. Vafaei (University of Isfahan, Iran)

Chapter 10
Cognitive Parameter Based Agent Selection and Negotiation Process for B2C E-Commerce
Mazumdar Birendra Dass (Banaras Hindu University, India)
Mishra R. B. (Banaras Hindu University, India)

Chapter 11
User Perceptions and Employment of Interface Agents for Email Notification
Serenko Alexander (Lakehead University, Canada)

Section 3: Intelligent Technologies

Chapter 12
Traffic Responsive Signal Timing Plan Generation based on Neural Network
Azzam-ul-Asar (University of Engineering & Technology, Pakistan)
Ullah M. Sadeeq (University of Peshawar, Pakistan)
Wyne Madasser F. (National University, USA)
Ahmed Jamal (University of Peshawar, Pakistan)
Riaz-ul-Hassain (University of Engineering & Technology, Pakistan)

Chapter 13
Intelligent Information Integration:
Ashish Naveen (University of California, Irvine, USA)
Maluf David A. (NASA Ames Research Center, USA)

Chapter 14
Association Analysis of Alumni Giving
Hashemi Ray R. (Armstrong Atlantic State University, USA)
Le Blanc Louis A. (Berry College, USA)
Babri Aftiza A. (Armstrong Atlantic State University, USA)
Bihao Mahnood (Tabiit Moallem University, Iran)
Traywick Bryan (Armstrong Atlantic State University, USA)

Chapter 15
KItem:
Mazzagarti Jane Campbell (As It Is Inc., USA)

Chapter 16
A Transaction-Oriented Architecture for Structuring Unstructured Information in Enterprise Applications
Polovina Simon (Sheffield Hallam University, UK)
Andrews Simon (Sheffield Hallam University, UK)

Chapter 17
Virtual Organisational Trust Requirements:
French Tim (University of Bedfordshire, UK)

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