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## 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

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**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.



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