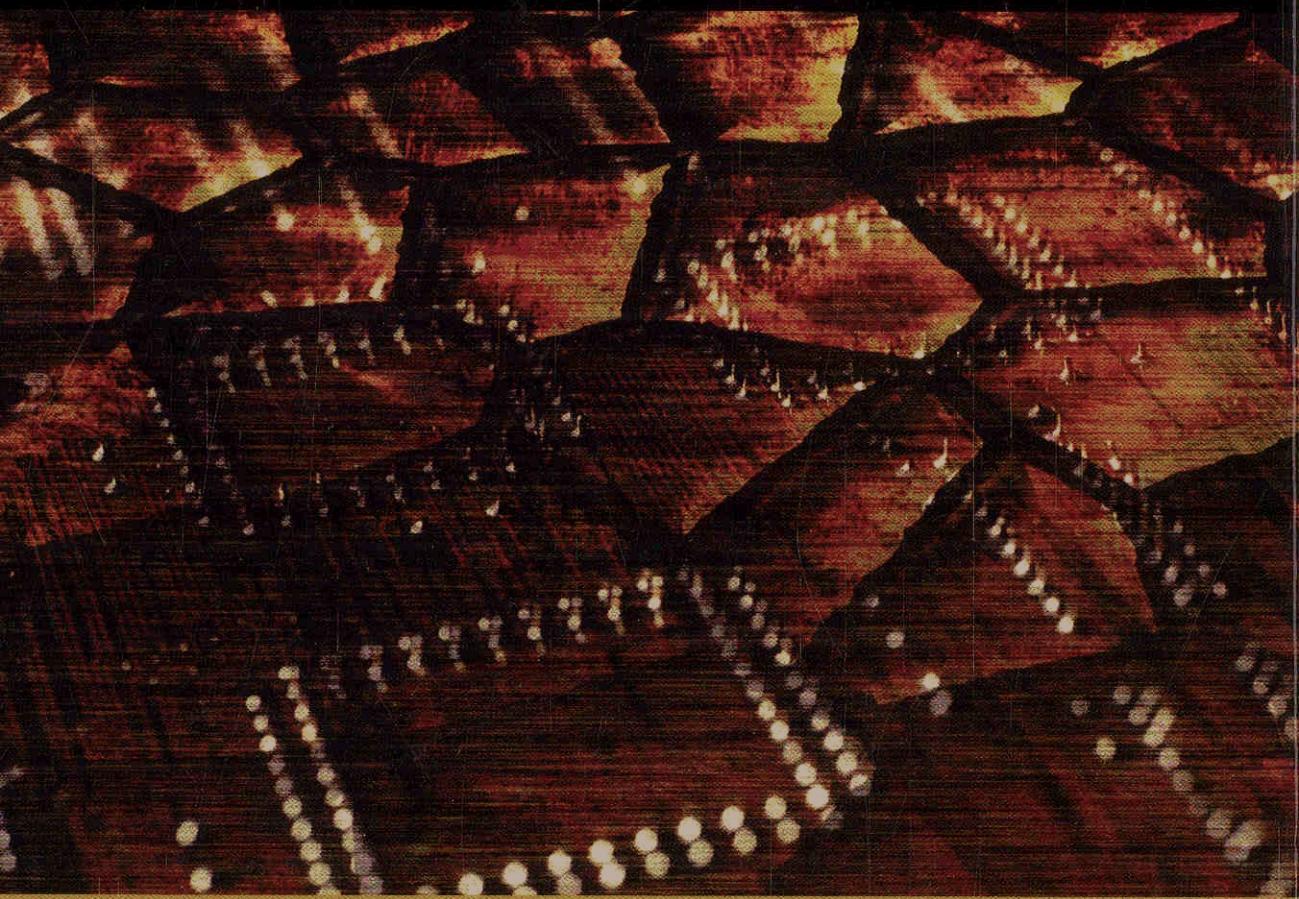


Application of Agents and Intelligent Information Technologies



VIJAYAN SUGUMARAN

Applications of Agents and Intelligent Information Technologies

Table of Contents

Preface.....	vi
Chapter I	
OABIS: An Ontology-Based Approach to Business Rules	
Sourcing in Supply Chain Management Systems	1
<i>Sudha Ram, University of Arizona, USA</i>	
<i>Jun Liu, University of Arizona, USA</i>	
Chapter II	
Evolution and Mutation in Push Technologies:	
Social Concerns Resulting from the Effects of Memes on	
Intelligent Agents	22
<i>Julie Kendall, Rutgers University, USA</i>	
<i>Kenneth Kendall, Rutgers University, USA</i>	
Chapter III	
Approaches and Tools to Optimize and Manage Clinical Processes	39
<i>Rainer Herrler, University of Würzburg, Germany</i>	
<i>Christian Heine, University of Hohenheim, Germany</i>	

Chapter IV	
Combating Malaria:	
A Complex System and Agent-Based Approach	66
<i>Narjès Bellamine-BenSaoud, University La Monouba, Tunisia</i>	
<i>Fatima Rateb, University College London, UK</i>	
Chapter V	
An Intelligent Multi-Robot System Using Higher-Order	
Mobile Agents	87
<i>Yasushi Kambayashi, Nippon Institute of Technology, Japan</i>	
<i>Munehiro Takimoto, Tokyo University of Science, Japan</i>	
Chapter VI	
Instrument Validation for Strategic Business Simulation	108
<i>Chris Langdon, University of Southern California, USA</i>	
Chapter VII	
Challenges of the “Global Understanding Environment”	
Based on Agent Mobility	121
<i>Vagan Terziyan, University of Jyvaskyla, Finland</i>	
Chapter VIII	
Building Sound Semantic Web Frameworks for Scalable	
and Fault-Tolerant Systems	153
<i>Thomas Biskup, Carl von Ossietzky University Oldenburg, Germany</i>	
<i>Nils Heyer, Carl von Ossietzky University Oldenburg, Germany</i>	
<i>Jorge Marx Gómex, Carl von Ossietzky University Oldenburg,</i>	
<i>Germany</i>	
Chapter IX	
Information Parallax	182
<i>Franc Grootjen, Radboud University Nijmegen, The Netherlands</i>	
<i>Theo van der Weide, Radboud University Nijmegen, The Netherlands</i>	
Chapter X	
ADAM: An Atonomic Approach to Database Management	216
<i>Sunitha Ramanujam, University of Western Ontario, Canada</i>	
<i>Miriam Capretz, University of Western Ontario, Canada</i>	

Chapter XI	
Towards Distributed Association Rule Mining Privacy	245
<i>Mafruz Zaman Ashrafi, Monash University, Australia</i>	
<i>David Taniar, Monash University, Australia</i>	
<i>Kate Smith, Monash University, Australia</i>	
Chapter XII	
A Generic Internet Trading Framework for Online Auctions	272
<i>Dong-Qing Yao, Towson University, USA</i>	
<i>Haiying Qiao, University of Maryland, USA</i>	
<i>Haibing Qiao, FileNet Corporation, USA</i>	
Chapter XIII	
Monitoring and Enforcing Online Auction Ethics.....	291
<i>Diana Kao, University of Windsor, Canada</i>	
<i>Shouhong Wang, University of Massachusetts Dartmouth, USA</i>	
Chapter XIV	
Mail Server Management with Intelligent Agents	312
<i>Charles Willow, Monmouth University, USA</i>	
Chapter XV	
Predicting Protein Secondary Structure Using Artificial	
Neural Networks and Information Theory.....	335
<i>Saad Osman Abdalla Subair, Al-Ghurair University,</i>	
<i>United Arab Emirates</i>	
<i>Safaai Deris, University of Technology Malaysia, Malaysia</i>	
About the Authors.....	361
Index.....	370