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Knowledge Processing and Decision Making in Agent-Based Systems



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Knowledge Processing And Decision Making In Agent Based Systems Studies In Computational Intelligence

**Beniamino Murgante, Giuseppe
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Knowledge Processing And Decision Making In Agent Based Systems Studies In Computational Intelligence:

Knowledge Processing and Decision Making in Agent-Based Systems Lakhmi C Jain,Ngoc Thanh Nguyen,2009-01-17

Knowledge processing and decision making in agent based systems constitute the key components of intelligent machines The contributions included in the book are Innovations in Knowledge Processing and Decision Making in Agent Based Systems Towards Real World HTN Planning Agents Mobile Agent Based System for Distributed Software Maintenance Software Agents in New Generation Networks Towards the Automation of Telecom Processes Multi agent Systems and Paraconsistent Knowledge An Agent based Negotiation Platform for Collaborative Decision Making in Construction Supply Chain An Event Driven Algorithm for Agents at the Web A Generic Mobile Agent Framework Toward Ambient Intelligence Developing Actionable Trading Strategies Agent Uncertainty Model and Quantum Mechanics Representation Agent Transportation Layer Adaptation System Software Agents to Enable Service Composition through Negotiation Advanced Technology Towards Developing Decentralized Autonomous Flexible Manufacturing Systems **Semantic Methods for**

Knowledge Management and Communication Radosław Katarzyniak Katarzyniak,Tzu-Fu Chiu,Chao-Fu

Hong,Ngoc-Thanh Nguyen,2011-08-04 The book consists of 31 chapters in which the authors deal with multiple aspects of modeling utilization and implementation of semantic methods for knowledge management and communication in the context of human centered computing It is assumed that the modern human centered computing requires the intensive application of these methods as well as effective integration with multiple techniques of computational collective intelligence The book is organized in four parts devoted to the presentation of utilization of knowledge processing in agent and multiagent systems application of computational collective intelligence to knowledge management models for collectives of intelligent agents and models and environments tailored directly to human centered computing All chapters in the book discuss theoretical and practical issues related to various models and aspects of computational techniques for semantic methods which are currently studied and developed in many academic and industry centers over the world The editors hope that the book can be useful for graduate and PhD students of computer science as well as for mature academics researchers and practitioners interested in developing of modern methods for representation processing and distribution of knowledge in the context of human centered computing and by means of computer based information systems It is the hope of the editors that readers of this volume can find in all chosen chapters many inspiring ideas and influential practical examples as well as use them in their current and future work **Paraconsistent Intelligent-Based Systems** Jair Minoru Abe,2015-06-22 This book presents

some of the latest applications of new theories based on the concept of paraconsistency and correlated topics in informatics such as pattern recognition bioinformatics robotics decision making themes and sample size Each chapter is self contained and an introductory chapter covering the logic theoretical basis is also included The aim of the text is twofold to serve as an introductory text on the theories and applications of new logic and as a textbook for undergraduate or graduate level courses

in AI Today AI frequently has to cope with problems of vagueness incomplete and conflicting inconsistent information One of the most notable formal theories for addressing them is paraconsistent paracomplete and non alethic logic

Agreement Technologies Sascha Ossowski,2012-12-20 More and more transactions whether in business or related to leisure activities are mediated automatically by computers and computer networks and this trend is having a significant impact on the conception and design of new computer applications The next generation of these applications will be based on software agents to which increasingly complex tasks can be delegated and which interact with each other in sophisticated ways so as to forge agreements in the interest of their human users The wide variety of technologies supporting this vision is the subject of this volume It summarises the European Cooperation in Science and Technology COST Action project on Agreement Technologies AT during which approximately 200 researchers from 25 European countries along with eight institutions from non COST countries cooperated as part of a number of working groups The book is the first to provide a comprehensive overview of the emerging field of Agreement Technologies written and coordinated by the leading researchers in the field The results set out here are due for wide dissemination beyond the computer technology sector involving law and social science as well

Computational Intelligence in Integrated Airline Scheduling Tobias Grosche,2009-02-26 In this text two planning approaches for integrated airline scheduling are presented One follows the traditional sequential approach and the other uses metaheuristics to offer a truly simultaneous approach to airline scheduling

Computational Intelligence and Decision Making Ana Madureira,Cecilia Reis,Viriato Marques,2012-11-08 This book provides a general overview and original analysis of new developments and applications in several areas of Computational Intelligence and Information Systems Computational Intelligence has become an important tool for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics chemistry biology engineering environment and social sciences The material contained in this book addresses the foundations and applications of Artificial Intelligence and Decision Support Systems Complex and Biological Inspired Systems Simulation and Evolution of Real and Artificial Life Forms Intelligent Models and Control Systems Knowledge and Learning Technologies Web Semantics and Ontologies Intelligent Tutoring Systems Intelligent Power Systems Self Organized and Distributed Systems Intelligent Manufacturing Systems and Affective Computing The contributions have all been written by international experts who provide current views on the topics discussed and present recent original insights from their own experience in these fields

Recent Advances in Decision Making Elisabeth Rakus-Andersson,Ronald R. Yager,Nikhil Ichalkaranje,2009-08-04 Intelligent paradigms are increasingly finding their ways in the design and development of decision support systems This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems in decision making A new method of ranking intuitionistic fuzzy alternatives Fuzzy rule base model identification by bacterial memetic algorithms Discovering associations with uncertainty from large databases Dempster Shafer structures monotonic set measures and decision making

Interpretable decision making models A general methodology for managerial decision making Supporting decision making via verbalization of data analysis results using linguistic data summaries Computational intelligence in medical decisions making This book is directed to the researchers graduate students professors decision makers and to those who are interested to investigate intelligent paradigms in decision making *Handbook of Research on Decision Sciences and Applications in the Transportation Sector* Hassan, Said Ali, Mohamed, Ali Wagdy, 2021-06-25 The advancements in decision sciences theory and applications can be regarded as a continuously emerging field in all areas of interest including technology industry energy healthcare education agriculture social sciences and more Managers in all disciplines face an endless list of complex issues every day One of the essential managerial skills is the ability to allocate and utilize limited resources appropriately in the efforts of achieving optimal performance efficiently This is no less important for those who work in the transportation sector The Handbook of Research on Decision Sciences and Applications in the Transportation Sector explores the importance of decision sciences and the ways in which they apply to the transportation sector This book covers technologies and tools including machine learning mathematical modeling and simulation and their applications in such tasks as reducing fuel costs improving passenger flow and ensuring vehicle safety It is an essential reference source for managers professionals in the transport industry supply chain specialists safety officers IT consultants executives practitioners scientists students researchers and academicians Transdisciplinary Engineering for Complex Socio-technical Systems Kazuo Hiekata, Bryan R. Moser, Masato Inoue, Nel Wognum, 2019-11-15 Industry and society are complex socio technical systems and both face problems that can only be solved by collaboration between different disciplines Collaboration between academia and practice is also needed to develop viable solutions Many engineering problems also require such an approach which is known as Transdisciplinary Engineering TE This book presents the proceedings of the 26th ISTE International Conference on Transdisciplinary Engineering held in Tokyo Japan from 30 July 1 August 2019 The title of the conference was Transdisciplinary Engineering for Complex Socio technical Systems and of the 86 submitted papers 68 peer reviewed papers by authors from 17 countries were delivered at the conference These papers range from theoretical and conceptual to strongly pragmatic They address industrial best practice and are grouped here under 10 themes advanced robotics for smart manufacturing design of personalized products and services engineering methods for industry 4 0 additive and subtractive manufacturing decision supporting tools and methods complex systems engineering big data analytics in manufacturing and services concurrent engineering cost modeling and digital manufacturing modeling and simulation Presenting the latest research results and knowledge of product creation processes and related methodologies the book will be of interest to researchers design practitioners and educators alike Evolutionary Multi-objective Optimization in Uncertain Environments Chi-Keong Goh, Kay Chen Tan, 2009-03-09 Evolutionary algorithms are sophisticated search methods that have been found to be very efficient and effective in solving

complex real world multi objective problems where conventional optimization tools fail to work well Despite the tremendous amount of work done in the development of these algorithms in the past decade many researchers assume that the optimization problems are deterministic and uncertainties are rarely examined The primary motivation of this book is to provide a comprehensive introduction on the design and application of evolutionary algorithms for multi objective optimization in the presence of uncertainties In this book we hope to expose the readers to a range of optimization issues and concepts and to encourage a greater degree of appreciation of evolutionary computation techniques and the exploration of new ideas that can better handle uncertainties Evolutionary Multi Objective Optimization in Uncertain Environments Issues and Algorithms is intended for a wide readership and will be a valuable reference for engineers researchers senior undergraduates and graduate students who are interested in the areas of evolutionary multi objective optimization and uncertainties

The Power of Agentic AI: Redefining Human Life and Decision-Making C. Kishor Kumar

Reddy,Shenson Joseph,Herat Joshi,Srinath Doss,Mariya Ouaisa,2025-09-26 This book explores how autonomous AI systems are reshaping human decision making across various industries and society The book delves into the concept of Agentic AI AI systems that can act independently and make decisions without human intervention Unlike existing literature that speculates about superintelligent systems this book offers practical insights into how current AI systems are already transforming sectors like health care finance and law It highlights the growing impact of these technologies on professional roles and governance offering a balanced view of both the opportunities and challenges presented by AI autonomy The book s findings show that Agentic AI enhances decision making by improving efficiency accuracy and scalability However it also presents ethical concerns related to accountability transparency and the shifting nature of human responsibility in AI mediated environments It emphasizes the need for robust ethical frameworks and governance structures to ensure that AI systems align with human values By focusing on real world applications and current AI technologies the book provides actionable insights for decision makers helping businesses policymakers and technologists navigate the evolving AI landscape It offers a roadmap for understanding the present day capabilities of autonomous systems and prepares professionals for the ethical and operational challenges of integrating these technologies Readers will gain a comprehensive understanding of how Agentic AI is poised to redefine human life and decision making making it essential for anyone interested in the future of technology ethics and innovation Unlike traditional AI which typically requires human supervision or input Agentic AI introduces the concept of autonomy AI systems that can act learn and make decisions independently This paradigm shift challenges the conventional human centered approach to decision making positioning AI as a true partner in complex cognitive tasks The book also explores the ethical and societal implications of AI autonomy in ways that extend beyond typical discussions

Handbook of Research on Educational Communications and Technology David

Jonassen,Michael J. Spector,Marcy Driscoll,M. David Merrill,Jeroen van Merriënboer,Marcy P. Driscoll,2008-09-25 First

Published in 2008 Sponsored by the Association of Educational Communication and Technology AECT the third edition of this groundbreaking Handbook continues the mission of its predecessors to provide up to date summaries and syntheses of recent research pertinent to the educational uses of information and communication technologies In addition to updating this new edition has been expanded from forty one to fifty six chapters organized into the following six sections foundations strategies technologies models design and development and methodological issues In response to feedback from users of the second edition the following changes have been built into this edition More Comprehensive topical coverage has been expanded from forty one to fifty six chapters and includes many more chapters on technology than in previous editions Restructured Chapters this edition features shorter chapters with introductory abstracts keyword definitions and extended bibliographies More International more than 20% of the contributing authors and one of the volume editors are non American Theoretical Focus Part 1 provides expanded cross disciplinary theoretical coverage Methodological Focus an extended methodological chapter begins with a comprehensive overview of research methods followed by lengthy separately authored sections devoted to specific methods Research and Development Focus another extended chapter with lengthy separately authored sections covers educational technology research and development in different areas of investigation e g experimental methods to determine the effectiveness of instructional designs technology based instructional interventions in research research on instructional design models *Intelligent Decision-making Support Systems* Jatinder N.D. Gupta, Guiseppe A. Forgionne, Manuel Mora T., 2007-03-30 This book will be bought by researchers and graduates students in Artificial Intelligence and management as well as practising managers and consultants interested in the application of IT and information systems in real business environment **Domain Driven Data Mining** Longbing Cao, Philip S. Yu, Chengqi Zhang, Yanchang Zhao, 2010-01-08 This book offers state of the art research and development outcomes on methodologies techniques approaches and successful applications in domain driven actionable knowledge discovery It bridges the gap between business expectations and research output **Applying Computational Intelligence** Arthur Kordon, 2009-11-28 In theory there is no difference between theory and practice But in practice there is Jan L A van de Snepscheut The ow of academic ideas in the area of computational intelligence has penetrated industry with tremendous speed and persistence Thousands of applications have proved the practical potential of fuzzy logic neural networks evolutionary com tation swarm intelligence and intelligent agents even before their theoretical foundation is completely understood And the popularity is rising Some software vendors have pronounced the new machine learning gold rush to Transfer Data into Gold New buzzwords like data mining genetic algorithms and swarm optimization have enriched the top executives vocabulary to make them look more visionary for the 21st century The phrase fuzzy math became political jargon after being used by US President George W Bush in one of the election debates in the campaign in 2000 Even process operators are discussing the perf mance of neural networks with the same passion as the performance of the Dallas Cowboys However for most of the

engineers and scientists introducing computational intelligence technologies into practice looking at the growing number of new approaches and understanding their theoretical principles and potential for value creation becomes a more and more difficult task

Computational Science and Computational Intelligence Hamid R. Arabnia, Leonidas Deligiannidis, Farzan Shenavarmasouleh, Soheyla Amirian, Farid Ghareh Mohammadi, 2025-09-15 The CCIS book constitutes selected papers accepted in the Research Track on Artificial Intelligence of the 11th International Conference on Computational Science and Computational Intelligence CSCI 2024 which took place in Las Vegas NV USA during December 11-13 2024 The 25 full papers included in this book were carefully reviewed and selected from a total of 383 submissions They were organized in topical sections on machine learning neural networks knowledge graphs and applications artificial intelligence and novel applications and computational intelligence and applications

Intelligent Unmanned Systems: Theory and Applications Agus Budiyo, Bambang Riyanto, Endra Joelianto, 2009-03-03 The book largely represents the extended version of select papers from the International Conference on Intelligent Unmanned System ICIUS 2007 which was jointly organized by the Center for Unmanned System Studies at Institut Teknologi Bandung Artificial Muscle Research Center at Konkuk University and Institute of Bio-inspired Structure and Surface Engineering Nanjing University of Aeronautics and Astronautics The joint event was the 3rd conference extending from International Conference on Emerging System Technology ICESS in 2005 and International Conference on Technology Fusion ICTF in 2006 both conducted in Seoul ICIUS 2007 was focused on both theory and application primarily covering the topics on robotics autonomous vehicles and intelligent unmanned technologies The conference was arranged into three parallel symposia with the following scope of topics Unmanned Systems Micro air vehicle Underwater vehicle Micro satellite manned aerial vehicle Multi agent systems Autonomous ground vehicle Blimp Swarm intelligence learning and control Robotics and Biomimetics Artificial muscle actuators Smart sensors Design and applications of MEMS NEMS system Intelligent robot system Evolutionary algorithm Control of biological systems AI and expert systems Biological learning control systems Neural networks Genetic algorithm Control and Intelligent System Distributed intelligence Distributed decentralized intelligent control Distributed or decentralized control methods Distributed and bedded systems Embedded intelligent control Complex systems Discrete event systems Hybrid systems Networked control systems Delay systems Fuzzy systems Identification and estimation Nonlinear systems Precision motion control Control applications Control engineering education

Cooperative Knowledge Processing Stefan Kirn, Gregory O'Hare, 2012-12-06 In the light of the challenges that face today's organizations there is a growing recognition that future market success and long term survival of enterprises will increasingly depend upon the effective usage of information technology Of late a new generation of terminology has emerged to describe enterprises This terminology draws heavily upon the virtual concept virtual reality virtual organization virtual working environment and indeed virtual product However developing computerized organisations for the 21st century demands serious thought with regard to the judicious integration of organizational theory

design and practice with research tools and methods from within information processing technology Within this book we approach this aim from the perspective of a radically decentralized possibly virtual enterprise We assume that organizations are becoming increasingly process orientated rather than adhering to the former more traditional organizational structures based upon task oriented models This approach has proved illuminating in that due to the inherent autonomy of organizational subunits any approach to coordinating decentralized activities including workflows and business processes necessitates a cooperative style of problem solving This book introduces the reader to a stimulating new field of interdisciplinary research in cooperative problem solving In Chapter 1 Kim presents a view of three central disciplines namely those of Organizational Theory Computer Supported Cooperative Work CSCW and Distributed Artificial Intelligence DAI The applications given here demonstrate how future enterprises will benefit from recent advances in the technological arena of cooperative knowledge processing *Geocomputation and Urban Planning* Beniamino Murgante, Giuseppe

Borruso, Alessandra Lapucci, 2009-02-26 Sixteen years ago Franklin estimated that about 80% of data contain geo referenced information To date the availability of geographic data and information is growing together with the capacity of users to operate with IT tools and instruments Spatial data infrastructures are growing and allow a wide number of users to rely on them This growth has not been fully coupled to an increase of knowledge to support spatial decisions Spatial analytical techniques geographical analysis and modelling methods are therefore required to analyse data and to facilitate the decision process at all levels Old geographical issues can find an answer thanks to new methods and instruments while new issues are developing challenging researchers towards new solutions This volume aims to contribute to the development of new techniques and methods to improve the process of knowledge acquisition The Geocomputational expression is related to the development and the application of new theories methods and tools in order to provide better solutions to complex geographical problems The geocomputational analysis discussed in this volume could be classified according to three main domains of applications the first one related to spatial decision support system and to spatial uncertainty the second connected to artificial intelligence the third based on all spatial statistics techniques **Design and Control of Intelligent**

Robotic Systems Dikai Liu, Lingfeng Wang, Kay Chen Tan, 2009-01-22 With the increasing applications of intelligent robotic systems in various fields the sign and control of these systems have increasingly attracted interest from researchers This edited book entitled *Design and Control of Intelligent Robotic Systems* in the book series of *Studies in Computational Intelligence* is a collection of some advanced research on design and control of intelligent robots The works presented range in scope from design methodologies to robot development Various design approaches and algorithms such as evolutionary computation neural networks fuzzy logic learning etc are included We also would like to mention that most studies reported in this book have been implemented in physical systems An overview on the applications of computational intelligence in bio inspired robotics is given in Chapter 1 by M Begum and F Karray with highlights of the recent progress in bio inspired

robotics research and a focus on the usage of computational intelligence tools to design human like cognitive abilities in the robotic systems In Chapter 2 Lisa L Grant and Ganesh K Venayagamoorthy present greedy search particle swarm optimization and fuzzy logic based strategies for navigating a swarm of robots for target search in a hazardous environment with potential applications in high risk tasks such as disaster recovery and hazardous material detection

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