

Maja Hadzic
Pornpit Wongthongtham
Tharam Dillon
Elizabeth Chang

Ontology-Based Multi-Agent Systems

Agent Based Optimization Studies In Computational Intelligence

AW Rasmussen



Agent Based Optimization Studies In Computational Intelligence:

Advanced Methods and Technologies for Agent and Multi-Agent Systems D. Barbucha, M.T. Le, R.J. Howlett, 2013-05-14
The field of agent and multi agent systems is concerned with the development and evaluation of sophisticated AI based problem solving and control architectures for both single and multi agent systems This book presents the proceedings of the 7th KES Conference on Agent and Multi agent Systems Technologies and Applications KES AMSTA 2013 held in Hue City Vietnam in May 2013 The KES AMSTA 2013 conference provides an internationally respected forum for scientific research in the technologies and applications of agent and multi agent systems In all 44 papers were selected for oral presentation and publication in this volume Special attention is paid to the feature topics of intelligent technologies and applications in the area of e health social networking self organizing systems economics and trust management Other topics covered include agent oriented software engineering beliefs engineering desires and intentions representation agent cooperation coordination negotiation organization and communication distributed problem solving specification of agent communication languages formalization of ontologies and conversational agents The book highlights new trends and challenges in agent and multi agent research and will be of interest to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems technologies and applications

Computational Intelligence based Optimization of Manufacturing Process for Sustainable Materials Deepak Sinwar, Kamalakanta Muduli, Vijaypal Singh Dhaka, Vijander Singh, 2023-09-25 The text comprehensively discusses computational models including artificial neural networks agent based models and decision field theory for reliability engineering It will serve as an ideal reference text for graduate students and academic researchers in the fields of industrial engineering manufacturing engineering computer engineering and materials science Discusses the development of sustainable materials using metaheuristic approaches Covers computational models such as agent based models ontology and decision field theory for reliability engineering Presents swarm intelligence methods such as ant colony optimization particle swarm optimization and grey wolf optimization for solving the manufacturing process Include case studies for industrial optimizations Explores the use of computational optimization for reliability and maintainability theory The text covers swarm intelligence techniques including ant colony optimization particle swarm optimization cuckoo search and genetic algorithms for solving complex industrial problems of the manufacturing industry as well as predicting reliability maintainability and availability of several industrial components

Population-Based Approaches to the Resource-Constrained and Discrete-Continuous Scheduling Ewa Ratajczak-Ropel, Aleksander Skakovski, 2017-08-21 This book addresses two of the most difficult and computationally intractable classes of problems discrete resource constrained scheduling and discrete continuous scheduling The first part of the book discusses problems belonging to the first class while the second part deals with problems belonging to the second class Both parts together offer valuable insights into the

possibility of implementing modern techniques and tools with a view to obtaining high quality solutions to practical and at the same time computationally difficult problems It offers a valuable source of information for practitioners dealing with the real world scheduling problems in industry management and administration The authors have been working on the respective problems for the last decade gaining scientific recognition through publications and active participation in the international scientific conferences and their results are obtained using population based methods Dr E Ratajczk Ropel explores multiple agent and A Team concepts while Dr A Skakovski focuses on evolutionary algorithms with a particular focus on the population learning paradigm *Twelfth Scandinavian Conference on Artificial Intelligence* M. Jaeger,T.D. Nielsen,P. Viappiani,2013-11-14 Artificial intelligence has become so much a part of everyday life that it is now hard to imagine a world without it This book presents papers from the 12th Scandinavian Conference on Artificial Intelligence SCAI held in Aalborg Denmark in November 2013 The SCAI conference is the main biennial platform for the AI research community in Scandinavia and the papers collected here not only include contributions from Scandinavia but also from other European and non European countries Topics cover the entire range of AI with a particular focus on machine learning and knowledge representation as well as uncertainty in AI and applications In addition to the 28 regular papers extended abstracts of the presentations made by Ph D students of their research in progress to a panel of experts in the doctoral symposium a new feature at this conference are also included here This book will be of interest to all those who wish to keep up to date with the latest developments in artificial intelligence Mathematical Modelling for Engineering and Physical Applications Mohd Hafiz Mohd,Noor Atinah Ahmad,Syakila Ahmad,Md Yushalify Misro,Mohamad Hekarl Uzir,2025-03-20 This edited volume from mathematical modelling experts employs a structured approach to showcase the latest research and provide a comprehensive guide to the principles techniques and practical applications of mathematical modelling in the fields of engineering and the physical sciences Readers will gain an insight into the fundamentals of mathematical modelling its application in engineering and the physical sciences recent advances in the field real world case studies and challenges and future directions in the field The book first introduces readers to the fundamentals of mathematical modelling including the definition scope and steps involved in the modelling process Mathematical tools and techniques relevant to modelling are explained The book then addresses the application of mathematical modelling in engineering and the physical sciences It covers various domains such as mechanical biomedical chemical computer and environmental engineering as well as green energy physics and other physical science applications Furthermore the book explores the integration of data driven approaches leveraging the power of big data and analytics to enhance modelling capabilities Through real life case studies readers gain practical insights into how mathematical modelling is applied in various industries and scientific disciplines These case studies analyse the modelling process challenges faced and outcomes achieved Readers will gain a solid foundation to develop effective mathematical models and apply them to solve complex engineering and physical problems

This foundation will also enable them to tackle problems and make informed decisions in their own projects Finally readers will be able to anticipate and adapt to evolving technologies and stay ahead in their respective fields This book is a valuable resource primarily for undergraduate and graduate students seeking a comprehensive guide to this important discipline Researchers engineers and scientists will also benefit from the discussions within Overall the book empowers readers with the knowledge skills and practical insights to effectively apply mathematical modelling in engineering and the physical sciences

Agent-Based Optimization Ireneusz Czarnowski,Piotr Jędrzejowicz,Janusz Kacprzyk,2012-12-14 This volume presents a collection of original research works by leading specialists focusing on novel and promising approaches in which the multi agent system paradigm is used to support enhance or replace traditional approaches to solving difficult optimization problems The editors have invited several well known specialists to present their solutions tools and models falling under the common denominator of the agent based optimization The book consists of eight chapters covering examples of application of the multi agent paradigm and respective customized tools to solve difficult optimization problems arising in different areas such as machine learning scheduling transportation and more generally distributed and cooperative problem solving

Theoretical and Practical Frameworks for Agent-Based Systems Zhang, Yu,2012-05-31 Many everyday dilemmas existing in the real world are complex and difficult to solve or fix ranging from tax evasion to dispatching taxis to scheduling patient visits in hospitals and much more Within these complicated problems however lies the potential to be simplified or solved by intelligent agents and multi agent systems Theoretical and Practical Frameworks for Agent Based Systems tackles these real problems and many more bringing the theoretical research of intelligent agents to researchers and practitioners in academia government and innumerable industries Professionals and experts in every field ranging from education to healthcare and beyond will find this reference to be essential in the understanding of agents and researchers currently working in the field of intelligent agents will benefit from this exciting examination of practical applications

Natural Computing in Computational Finance Anthony Brabazon,Michael O'Neill,2008-05-09 Natural Computing in Computational Finance is a innovative volume containing fifteen chapters which illustrate cutting edge applications of natural computing or agent based modeling in modern computational finance Following an introductory chapter the book is organized into three sections The first section deals with optimization applications of natural computing demonstrating the application of a broad range of algorithms including genetic algorithms differential evolution evolution strategies quantum inspired evolutionary algorithms and bacterial foraging algorithms to multiple financial applications including portfolio optimization fund allocation and asset pricing The second section explores the use of natural computing methodologies such as genetic programming neural network hybrids and fuzzy evolutionary hybrids for model induction in order to construct market trading credit scoring and market prediction systems The final section illustrates a range of agent based applications including the modeling of payment card and financial markets Each chapter provides an introduction to the relevant natural

computing methodology as well as providing a clear description of the financial application addressed The book was written to be accessible to a wide audience and should be of interest to practitioners academics and students in the fields of both natural computing and finance

Intelligent Decision Technologies 2016 Ireneusz Czarnowski,Alfonso Mateos Caballero,Robert J. Howlett,Lakhmi C. Jain,2016-06-13 The KES IDT 2016 proceedings give an excellent insight into recent research both theoretical and applied in the field of intelligent decision making The range of topics explored is wide and covers methods of grouping classification prediction decision support modelling and many more in such areas as finance linguistics medicine management and transportation This proceedings contain several sections devoted to specific topics such as Specialized Decision Techniques for Data Mining Transportation and Project Management Pattern Recognition for Decision Making Systems New Advances of Soft Computing in Industrial and Management Engineering Recent Advances in Fuzzy Systems Intelligent Data Analysis and Applications Reasoning based Intelligent Systems Intelligent Methods for Eye Movement Data Processing and Analysis Intelligent Decision Technologies for Water Resources Management Intelligent Decision Making for Uncertain Unstructured Big Data Decision Making Theory for Economics Interdisciplinary Approaches in Business Intelligence Research and Practice Pattern Recognition in Audio and Speech Processing The KES IDT conference is a well established international annual conference interdisciplinary in nature These two volumes of proceedings form an excellent account of the latest results and outcomes of recent research in this leading edge area

Handbook of Research on Computational Intelligence Applications in Bioinformatics Dash, Sujata,Subudhi, Bidyadhar,2016-06-20 Developments in the areas of biology and bioinformatics are continuously evolving and creating a plethora of data that needs to be analyzed and decrypted Since it can be difficult to decipher the multitudes of data within these areas new computational techniques and tools are being employed to assist researchers in their findings The Handbook of Research on Computational Intelligence Applications in Bioinformatics examines emergent research in handling real world problems through the application of various computation technologies and techniques Featuring theoretical concepts and best practices in the areas of computational intelligence artificial intelligence big data and bio inspired computing this publication is a critical reference source for graduate students professionals academics and researchers

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