

Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms



Handbook Research Modeling Computational Intelligence

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Handbook Research Modeling Computational Intelligence:

Springer Handbook of Computational Intelligence Janusz Kacprzyk, Witold Pedrycz, 2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured

Handbook of Research on Smart Technology Models for Business and Industry Thomas, J. Joshua, Fiore, Ugo, Lechuga, Gilberto Perez, Kharchenko, Valeriy, Vasant, Pandian, 2020-06-19 Advances in machine learning techniques and ever increasing computing power has helped create a new generation of hardware and software technologies with practical applications for nearly every industry As the progress has in turn excited the interest of venture investors technology firms and a growing number of clients implementing intelligent automation in both physical and information systems has become a must in business Handbook of Research on Smart Technology Models for Business and Industry is an essential reference source that discusses relevant abstract frameworks and the latest experimental research findings in theory mathematical models software applications and prototypes in the area of smart technologies Featuring research on topics such as digital security renewable energy and intelligence management this book is ideally designed for machine learning specialists industrial experts data scientists researchers academicians students and business professionals seeking coverage on current smart technology models

Computational Intelligence Applications in Modeling and Control Ahmad Taher Azar, Sundarapandian Vaidyanathan, 2014-12-26 The development of computational intelligence CI systems was inspired by observable and imitable aspects of intelligent activity of human being and nature The essence of the systems based on computational intelligence is to process and interpret data of various nature so that that CI is strictly connected with the increase of available data as well as capabilities of their processing mutually supportive factors Developed theories of computational intelligence were quickly applied in many fields of engineering data analysis forecasting biomedicine and others They are used in images and sounds processing and identifying signals processing multidimensional data visualization steering of objects analysis of lexicographic data requesting systems in banking diagnostic systems expert systems and many other practical implementations This book consists of 16 contributed chapters by subject experts who are specialized in the various topics addressed in this book The special chapters have been brought out in the broad areas of Control Systems Power Electronics Computer Science Information Technology modeling and engineering applications Special importance was given to chapters offering practical solutions and novel methods for the recent research problems in the main areas of this

book viz Control Systems Modeling Computer Science IT and engineering applications This book will serve as a reference book for graduate students and researchers with a basic knowledge of control theory computer science and soft computing techniques The resulting design procedures are emphasized using Matlab Simulink software *Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications* Vasant, Pandian M.,2013-08-31 This book explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems demonstrating applications in areas such as bio engineering space exploration industrial informatics information security and nuclear and renewable energies Provided by publisher Handbook of Research on Advanced Intelligent Control Engineering and Automation Azar, Ahmad Taher,2014-11-30 In industrial engineering and manufacturing control of individual processes and systems is crucial to developing a quality final product Rapid developments in technology are pioneering new techniques of research in control and automation with multi disciplinary applications in electrical electronic chemical mechanical aerospace and instrumentation engineering The Handbook of Research on Advanced Intelligent Control Engineering and Automation presents the latest research into intelligent control technologies with the goal of advancing knowledge and applications in various domains This text will serve as a reference book for scientists engineers and researchers as it features many applications of new computational and mathematical tools for solving complicated problems of mathematical modeling simulation and control **Handbook of Computational Intelligence in Manufacturing and Production Management** Laha, Dipak,Mandal, Purnendu,2007-11-30 During the last two decades computer and information technologies have forced great changes in the ways businesses manage operations in meeting the desired quality of products and services customer demands competition and other challenges The Handbook of Computational Intelligence in Manufacturing and Production Management focuses on new developments in computational intelligence in areas such as forecasting scheduling production planning inventory control and aggregate planning among others This comprehensive collection of research provides cutting edge knowledge on information technology developments for both researchers and professionals in fields such as operations and production management Web engineering artificial intelligence and information resources management **Computational Intelligence in Software Modeling** Vishal Jain,Jyotir Moy Chatterjee,Ankita Bansal,Utku Kose,Abha Jain,2022-02-21 Researchers academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering As software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors Evolutionary algorithms machine learning approaches meta heuristic algorithms and others techniques can help the efficiency of software engineering *Handbook of Research on Soft Computing and Nature-Inspired Algorithms* Shandilya, Shishir K.,Shandilya, Smita,Deep, Kusum,Nagar, Atulya K.,2017-03-10 Soft computing and nature inspired computing both play a significant role in developing a better understanding to machine learning When studied together they can offer new

perspectives on the learning process of machines The Handbook of Research on Soft Computing and Nature Inspired Algorithms is an essential source for the latest scholarly research on applications of nature inspired computing and soft computational systems Featuring comprehensive coverage on a range of topics and perspectives such as swarm intelligence speech recognition and electromagnetic problem solving this publication is ideally designed for students researchers scholars professionals and practitioners seeking current research on the advanced workings of intelligence in computing systems

Computational Intelligence Solutions for Real-Life Problems Biswadip Basu Mallik, Gunjan Mukherjee, Rahul Kar, Özen Özer, Digvijay Pandey, Binay Kumar Pandey, 2025-11-18 This new book looks at the fast growing field of computational intelligence in a wide range of areas and offers new perspectives for using AI to enhance effectiveness as well as deal with real life issues and problems The diverse case examples highlight the integration of computational intelligence in drug discovery and the manufacturing of pharmaceuticals in electronic science in agricultural science in manufacturing and industrial design in finance and economics in cybersecurity in election integrity in cancer prediction and analysis for technical and vocational education and more

Innovations in Computational Intelligence and Computer Vision Satyabrata Roy, Deepak Sinwar, Thinagaran Perumal, Adam Slowik, João Manuel R. S. Tavares, 2022-05-14 This book presents high quality peer reviewed papers from the International Conference on Innovations in Computational Intelligence and Computer Vision ICICV 2021 hosted by Manipal University Jaipur Rajasthan India on August 5 6 2021 Offering a collection of innovative ideas from researchers scientists academics industry professionals and students the book covers a variety of topics such as artificial intelligence and computer vision image processing and video analysis applications and services of artificial intelligence and computer vision interdisciplinary areas combining artificial intelligence and computer vision and other innovative practices

Optimized Computational Intelligence Driven Decision-Making Hrudaya Kumar Tripathy, Sushruta Mishra, Minakshi Rout, S. Balamurugan, Samaresh Mishra, 2024-07-08 This book covers a wide range of advanced techniques and approaches for designing and implementing computationally intelligent methods in different application domains which is of great use to not only researchers but also academicians and industry experts Optimized Computational Intelligence OCI is a new cutting edge and multidisciplinary research area that tackles the fundamental problems shared by modern informatics biologically inspired computation software engineering AI cybernetics cognitive science medical science systems science philosophy linguistics economics management science and life sciences OCI aims to apply modern computationally intelligent methods to generate optimum outcomes in various application domains This book presents the latest technologies driven material to explore optimized various computational intelligence domains includes real life case studies highlighting different advanced technologies in computational intelligence provides a unique compendium of current and emerging hybrid intelligence paradigms for advanced informatics reflects the diversity complexity and depth and breadth of this critical bio inspired domain offers a guided tour of computational intelligence

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A Guided Tour of Artificial Intelligence Research Pierre Marquis, Odile Papini, Henri Prade, 2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI This third volume is dedicated to the interfaces of AI with various fields with which strong links exist either at the methodological or at the applicative levels The foreword of this volume reminds us that AI was born for a large part from cybernetics Chapters are devoted to disciplines that are historically sisters of AI natural language processing pattern recognition and computer vision and robotics Also close and complementary to AI due to their direct links with information are databases the semantic web information retrieval and human computer interaction All these disciplines are privileged places for applications of AI methods This is also the case for bioinformatics biological modeling and computational neurosciences The developments of AI have also led to a dialogue with theoretical computer science in particular regarding computability and complexity Besides AI research and findings have renewed philosophical and epistemological questions while their cognitive validity raises questions to psychology The volume also discusses some of the interactions between science and artistic creation in literature and in music Lastly an epilogue concludes the three volumes of this Guided Tour of AI Research by providing an overview of what has been achieved by AI emphasizing AI as a science and not just as an innovative technology and trying to dispel some misunderstandings

Computational Modeling of Multilevel Organisational Learning and Its Control Using Self-modeling Network Models Gülay Canbaloğlu, Jan Treur, Anna Wiewiora, 2023-06-16 Although there is much literature on organisational learning mathematical formalisation and computational simulation there is no literature that uses mathematical modelling and simulation to represent and explore different facets of multilevel learning This book provides an overview of recent work on mathematical formalisation and computational simulation of multilevel organisational learning by exploiting the possibilities

of self modeling network models to address it This is the first book addressing mathematical formalisation and computational modeling of multilevel organisational learning in a systematic principled manner A self modeling network modeling approach from AI and Network Science is used where in a reflective manner some of the network nodes called self model nodes represent parts of the network s own network structure characteristics This is supported by a dedicated software environment allowing to design and implement higher order adaptive network models by specifying them in a conceptual manner at a high level of abstraction in a standard table format without any need of algorithmic specification or programming This modeling approach allows to model the development of knowledge in an organisational setting in a neatly structured manner at three different levels for the usage adaptation and control respectively of the underlying mental models Several examples of realistic cases of multilevel organisational learning are used to illustrate the approach Crucial concepts such as the aggregation of mental models to form shared mental models out of individual mental models are addressed extensively It is shown how to model context sensitive control of organisational learning taking into account a wide variety of context factors for example relating to levels of expertise of individuals or to leadership styles of managers involved Mathematical equilibrium analysis of models of organisational learning is also addressed among others allowing verification of correctness of the implemental models in comparison to their conceptual design Chapters in this book also contribute to the Management and Business Sciences research by demonstrating how computational modeling can be used to capture complex management phenomena such as multilevel organizational learning This book has a potential implication for practice by demonstrating how computational modeling can be used to capture learning scenarios which then provide a basis for more informed managerial decisions

Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Manoj Sahni, José M. Merigó, Walayat Hussain, Ernesto León-Castro, Raj Kumar Verma, Ritu Sahni, 2023-05-08 The book is a collection of best selected research papers presented at the Third International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy MMCITRE 2022 organized by the University of Technology Sydney Australia in association with the Department of Mathematics Pandit Deendayal Energy University India and Forum for Interdisciplinary Mathematics This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems applications of fuzzy sets and intelligent computing The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

Computational Intelligence in Information Systems Somnuk Phon-Amnuaisuk, Thien-Wan Au, Saiful Omar, 2016-10-25 This book constitutes the Proceedings of the Computational Intelligence in Information Systems conference CIIS 2016 held in Brunei November 18 20 2016 The CIIS conference provides a platform for researchers to exchange the latest ideas and to present new research advances in general areas related to computational intelligence and its applications The 26 revised full papers presented in this book have been carefully selected

from 62 submissions They cover a wide range of topics and application areas in computational intelligence and informatics

Computational Intelligence - Volume II Hisao Ishibuchi, 2015-12-30 Computational intelligence is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Computational intelligence is a rapidly growing research field including a wide variety of problem solving techniques inspired by nature Traditionally computational intelligence consists of three major research areas Neural Networks Fuzzy Systems and Evolutionary Computation Neural networks are mathematical models inspired by brains Neural networks have massively parallel network structures with many neurons and weighted connections Whereas each neuron has a simple input output relation a neural network with many neurons can realize a highly non linear complicated mapping Connection weights between neurons can be adjusted in an automated manner by a learning algorithm to realize a non linear mapping required in a particular application task Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language For example it is very difficult to mathematically define the meaning of cold in everyday conversations such as It is cold today and Can I have cold water The meaning of cold may be different in a different situation Even in the same situation a different person may have a different meaning Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language As a result fuzzy systems have been successfully applied to real world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF THEN rules Evolutionary computation includes various population based search algorithms inspired by evolution in nature Those algorithms usually have the following three mechanisms fitness evaluation to measure the quality of each solution selection to choose good solutions from the current population and variation operators to generate offspring from parents Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it does not need any explicit mathematical formulations of objective functions For example simulation based fitness evaluation is often used in evolutionary design Subjective fitness evaluation by a human user is also often used in evolutionary art and music These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers

Computational Intelligence - Volume I Hisao Ishibuchi, 2015-12-30 Computational intelligence is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Computational intelligence is a rapidly growing research field including a wide variety of problem solving techniques inspired by nature Traditionally computational intelligence consists of three major research areas Neural Networks Fuzzy Systems and Evolutionary Computation Neural networks are mathematical models inspired by brains Neural networks have massively parallel network structures with many neurons and weighted connections Whereas each neuron has a simple input output relation a neural network with many

neurons can realize a highly non linear complicated mapping Connection weights between neurons can be adjusted in an automated manner by a learning algorithm to realize a non linear mapping required in a particular application task Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language For example it is very difficult to mathematically define the meaning of cold in everyday conversations such as It is cold today and Can I have cold water The meaning of cold may be different in a different situation Even in the same situation a different person may have a different meaning Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language As a result fuzzy systems have been successfully applied to real world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF THEN rules Evolutionary computation includes various population based search algorithms inspired by evolution in nature Those algorithms usually have the following three mechanisms fitness evaluation to measure the quality of each solution selection to choose good solutions from the current population and variation operators to generate offspring from parents Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it does not need any explicit mathematical formulations of objective functions For example simulation based fitness evaluation is often used in evolutionary design Subjective fitness evaluation by a human user is also often used in evolutionary art and music These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers

Computational Intelligence in Control Mohammadian, Masoud, Sarker, Rahul A., Yao, Xin, 2002-07-01 The problem of controlling uncertain dynamic systems which are subject to external disturbances uncertainty and sheer complexity is of considerable interest in computer science operations research and business domains Computational Intelligence in Control is a repository for the theory and applications of intelligent systems techniques *Fundamentals of Computational Intelligence* James M. Keller, Derong Liu, David B. Fogel, 2016-07-12 Provides an in depth and even treatment of the three pillars of computational intelligence and how they relate to one another This book covers the three fundamental topics that form the basis of computational intelligence neural networks fuzzy systems and evolutionary computation The text focuses on inspiration design theory and practical aspects of implementing procedures to solve real world problems While other books in the three fields that comprise computational intelligence are written by specialists in one discipline this book is co written by current former Editor in Chief of IEEE Transactions on Neural Networks and Learning Systems a former Editor in Chief of IEEE Transactions on Fuzzy Systems and the founding Editor in Chief of IEEE Transactions on Evolutionary Computation The coverage across the three topics is both uniform and consistent in style and notation Discusses single layer and multilayer neural networks radial basis function networks and recurrent neural networks Covers fuzzy set theory fuzzy relations fuzzy logic interference fuzzy clustering and classification fuzzy measures and fuzzy integrals Examines evolutionary optimization evolutionary learning and problem solving and collective intelligence Includes end of chapter practice problems that will help

readers apply methods and techniques to real world problems Fundamentals of Computational intelligence is written for advanced undergraduates graduate students and practitioners in electrical and computer engineering computer science and other engineering disciplines

Understanding COVID-19: The Role of Computational Intelligence Janmenjoy Nayak,Bighnaraj Naik,Ajith Abraham,2021-07-27 This book provides a comprehensive description of the novel coronavirus infection spread analysis and related challenges for the effective combat and treatment With a detailed discussion on the nature of transmission of COVID 19 few other important aspects such as disease symptoms clinical application of radiomics image analysis antibody treatments risk analysis drug discovery emotion and sentiment analysis virus infection and fatality prediction are highlighted The main focus is laid on different issues and futuristic challenges of computational intelligence techniques in solving and identifying the solutions for COVID 19 The book drops radiance on the reasons for the growing profusion and complexity of data in this sector Further the book helps to focus on further research challenges and directions of COVID 19 for the practitioners as well as researchers

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Handbook Research Modeling Computational Intelligence**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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