

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



Handbook Research Modeling Computational Intelligence

**Witold Pedrycz, Luis Martínez, Rafael
Alejandro Espin-Andrade, Gilberto
Rivera, Jorge Marx Gómez**

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 Computational Intelligence Applications in Business Intelligence and Big Data Analytics Vijayan Sugumaran, Arun Kumar Sangaiah, Arunkumar Thangavelu, 2017-06-26 There are a number of books on computational intelligence CI but they tend to cover a broad range of CI paradigms and algorithms rather than provide an in depth exploration in learning and adaptive mechanisms This book sets its focus on CI based architectures modeling case studies and applications in big data analytics and business intelligence The intended audiences of this book are scientists professionals researchers and academicians who deal with the new challenges and advances in the specific areas mentioned above Designers and developers of applications in these areas can learn from other experts and colleagues through this book

Proceedings of International Joint Conference on Advances in Computational Intelligence Mohammad Shorif Uddin, Prashant Kumar Jamwal, Jagdish Chand Bansal, 2022-05-18 This book gathers outstanding research papers presented at the 5th International Joint Conference on Advances in Computational Intelligence IJCACI 2021 held online during October 23-24, 2021 IJCACI 2021 is jointly organized by Jahangirnagar University JU Bangladesh and South Asian University SAU India The book presents the novel contributions in areas of computational intelligence and it serves as a reference material for advance research The topics covered are collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics and signal and natural language processing **Computational Intelligence for Modelling, Control & Automation** Masoud Mohammadian, 1999 This edited Book is dedicated to the theory and applications of Evolutionary Computation and Fuzzy Logic for Intelligent Control Knowledge Acquisition and Information Retrieval The book consists of 86 selected research papers from the 1999 International Conference on Computational Intelligence for Modelling Control and Automation CIMCA 99 The research papers presented in this book cover new techniques and applications in the following research areas Evolutionary Computation Fuzzy Logic and Expert Systems with their applications for Optimisation Learning Control Scheduling and Multi Criteria Analysis as well as Reliability Assessment Information Retrieval and Knowledge Acquisition Advances and Applications in Nonlinear Control Systems Sundarapandian Vaidyanathan, Christos Volos, 2016-03-17 The book reports on the

latest advances and applications of nonlinear control systems It consists of 30 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 nonlinear control systems such as robotics nonlinear circuits power systems memristors underwater vehicles chemical processes observer design output regulation backstepping control sliding mode control time delayed control variables structure control robust adaptive control fuzzy logic control chaos hyperchaos jerk systems hyperjerk systems chaos control chaos synchronization etc Special importance was given to chapters offering practical solutions modeling and novel control methods for the recent research problems in nonlinear control systems This book will serve as a reference book for graduate students and researchers with a basic knowledge of electrical and control systems engineering The resulting design procedures on the nonlinear control systems are emphasized using MATLAB software

Fractional Order Control and Synchronization of Chaotic Systems Ahmad Taher Azar, Sundarapandian Vaidyanathan, Adel Ouannas, 2017-02-27 The book reports on the latest advances in and applications of fractional order control and synchronization of chaotic systems explaining the concepts involved in a clear matter of fact style It consists of 30 original contributions written by eminent scientists and active researchers in the field that address theories methods and applications in a number of research areas related to fractional order control and synchronization of chaotic systems such as fractional chaotic systems hyperchaotic systems complex systems fractional order discrete chaotic systems chaos control chaos synchronization jerk circuits fractional chaotic systems with hidden attractors neural network fuzzy logic controllers behavioral modeling robust and adaptive control sliding mode control different types of synchronization circuit realization of chaotic systems etc In addition to providing readers extensive information on chaos fundamentals fractional calculus fractional differential equations fractional control and stability the book also discusses key applications of fractional order chaotic systems as well as multidisciplinary solutions developed via control modeling As such it offers the perfect reference guide for graduate students researchers and practitioners in the areas of fractional order control systems and fractional order chaotic systems

Advances in Chaos Theory and Intelligent Control Ahmad Taher Azar, Sundarapandian Vaidyanathan, 2016-04-15 The book reports on the latest advances in and applications of chaos theory and intelligent control Written by eminent scientists and active researchers and using a clear matter of fact style it covers advanced theories methods and applications in a variety of research areas and explains key concepts in modeling analysis and control of chaotic and hyperchaotic systems Topics include fractional chaotic systems chaos control chaos synchronization memristors jerk circuits chaotic systems with hidden attractors mechanical and biological chaos and circuit realization of chaotic systems The book further covers fuzzy logic controllers evolutionary algorithms swarm intelligence and petri nets among other topics Not only does it provide the readers with chaos fundamentals and intelligent control based algorithms it also discusses key applications of chaos as well as multidisciplinary solutions developed via intelligent control The book is a timely and comprehensive reference guide for

graduate students researchers and practitioners in the areas of chaos theory and intelligent control **Computational Intelligence and Blockchain in Biomedical and Health Informatics** Pankaj Bhambri, Sita Rani, Muhammad Fahim, 2024-06-19

Advancements in computational intelligence which encompasses artificial intelligence machine learning and data analytics have revolutionized the way we process and analyze biomedical and health data. These techniques offer novel approaches to understanding complex biological systems, improving disease diagnosis, optimizing treatment plans, and enhancing patient outcomes. *Computational Intelligence and Blockchain in Biomedical and Health Informatics* introduces the role of computational intelligence and blockchain in the biomedical and health informatics fields and provides a framework and summary of the various methods. The book emphasizes the role of advanced computational techniques and offers demonstrative examples throughout. Techniques to analyze the impacts on the biomedical and health Informatics domains are discussed along with major challenges in deployment. Rounding out the book are highlights of the transformative potential of computational intelligence and blockchain in addressing critical issues in healthcare from disease diagnosis and personalized medicine to health data management and interoperability along with two case studies. This book is highly beneficial to educators, researchers, and anyone involved with health data.

Features: Introduces the role of computational intelligence and blockchain in the biomedical and health informatics fields. Provides a framework and a summary of various computational intelligence and blockchain methods. Emphasizes the role of advanced computational techniques and offers demonstrative examples throughout. Techniques to analyze the impact on biomedical and health informatics are discussed along with major challenges in deployment. Highlights the transformative potential of computational intelligence and blockchain in addressing critical issues in healthcare from disease diagnosis and personalized medicine to health data management and interoperability.

Collaborative Research Design Per Vagn Freytag, Louise Young, 2017-09-27. This book articulates and interconnects a range of research methods for the investigation of business management processes. It introduces new directions that both recognise the business community as stakeholders in the research process and seek to include them in that process. The book presents a range of contemporary research methods with particular focus on those that allow insights into business managers' thoughts and behaviours. It includes fresh views on traditional research designs for example new approaches to using literature reviews, experiments, interviews, and observation studies. It also considers cutting edge research methods such as the use of vignettes, workshops, improvisation, and theatre, as well as computer based simulation. In addition to discussing new approaches to data capture and data generation, it presents new methods of data analysis by considering various forms of models and modelling, new forms of computer aided text analysis, and innovative approaches to data display. Finally, the book provides a link between the philosophical underpinnings of research and the different research methods presented. This is often neglected but undertaking the knowledge generating journey that is research includes having a view on reality and marrying this to beliefs about how the reality to be investigated can be best expedited.

Computational Intelligence in Telecommunications Networks Witold Pedrycz, Athanasios Vasilakos, 2018-10-03

Telecommunications has evolved and grown at an explosive rate in recent years and will undoubtedly continue to do so. As its functions, applications, and technology grow, it becomes increasingly complex and difficult, if not impossible, to meet the demands of a global network using conventional computing technologies. Computational intelligence (CI) is the technology of the future, and the future is now. Computational Intelligence in Telecommunications Networks offers an in-depth look at the rapid progress of CI technology and shows its importance in solving the crucial problems of future telecommunications networks. It covers a broad range of topics from Call Admission Control, congestion control, and QoS routing for ATM networks to network design and management, optical mobile and active networks, and Intelligent Mobile Agents. Today's telecommunications professionals need a working knowledge of CI to exploit its potential to overcome emerging challenges. The CI community must become acquainted with those challenges to take advantage of the enormous opportunities the telecommunications field offers. This text meets both those needs clearly, concisely, and with a depth certain to inspire further theoretical and practical advances.

Computational Intelligence and Informatics Imre J. Rudas, János

Fodor, 2010-10-08 The International Symposium of Hungarian Researchers on Computational Intelligence and Informatics celebrated its 10th edition in 2009. This volume contains a careful selection of papers that are based on and are extensions of corresponding lectures presented at the jubilee conference. This annual Symposium was launched by Budapest Tech (previously Budapest Polytechnic) and by the Hungarian Fuzzy Association in 2000 with the aim to bring together Hungarian-speaking researchers working on computational intelligence and related topics from all over the world but with special emphasis on the Central European Region. The Symposium of the 10th jubilee anniversary contained 70 reviewed papers. The growing interest and the enthusiasm of the participants have proved that the Symposium has become an internationally recognized scientific event providing a good platform for the annual meeting of Hungarian researchers. The main subject area called Computational Intelligence includes diverse topics. Therefore, we offer snapshots rather than a full coverage of a small particular subject to the interested reader. This principle is also supported by the common national root of the authors. The book begins with Information Systems and Communication. This part contains papers on graphs of grammars, software and hardware solutions for Mojette transformation, statistical intrusion detection, congestion forecast, and 3D-based internet communication and control.

Computational Intelligence for Traffic and Mobility Wuhong Wang, Geert

Wets, 2012-12-12 This book presents the new development of computational intelligence for traffic, transportation, and mobility. The main contents include traffic safety, mobility analysis, intelligent transportation system, smart vehicle, transportation behavior, driver modeling, and assistance, transportation risk analysis, and reliability system analysis, vehicle operation, and active safety, urban traffic management, and planning.

Computational Intelligence for Business Analytics Witold

Pedrycz, Luis Martínez, Rafael Alejandro Espin-Andrade, Gilberto Rivera, Jorge Marx Gómez, 2021-10-26 Corporate success has

been changed by the importance of new developments in Business Analytics BA and furthermore by the support of computational intelligence based techniques This book opens a new avenues in these subjects identifies key developments and opportunities The book will be of interest for students researchers and professionals to identify innovative ways delivered by Business Analytics based on computational intelligence solutions They help elicit information handle knowledge and support decision making for more informed and reliable decisions even under high uncertainty environments Computational Intelligence for Business Analytics has collected the latest technological innovations in the field of BA to improve business models related to Group Decision Making Forecasting Risk Management Knowledge Discovery Data Breach Detection Social Well Being among other key topics related to this field *Advances in Data Analysis with Computational Intelligence Methods* Adam E Gawęda, Janusz Kacprzyk, Leszek Rutkowski, Gary G. Yen, 2017-09-21 This book is a tribute to Professor Jacek urada who is best known for his contributions to computational intelligence and knowledge based neurocomputing It is dedicated to Professor Jacek urada Full Professor at the Computational Intelligence Laboratory Department of Electrical and Computer Engineering J B Speed School of Engineering University of Louisville Kentucky USA as a token of appreciation for his scientific and scholarly achievements and for his longstanding service to many communities notably the computational intelligence community in particular neural networks machine learning data analyses and data mining but also the fuzzy logic and evolutionary computation communities to name but a few At the same time the book recognizes and honors Professor urada s dedication and service to many scientific scholarly and professional societies especially the IEEE Institute of Electrical and Electronics Engineers the world s largest professional technical professional organization dedicated to advancing science and technology in a broad spectrum of areas and fields The volume is divided into five major parts the first of which addresses theoretic algorithmic and implementation problems related to the intelligent use of data in the sense of how to derive practically useful information and knowledge from data In turn Part 2 is devoted to various aspects of neural networks and connectionist systems Part 3 deals with essential tools and techniques for intelligent technologies in systems modeling and Part 4 focuses on intelligent technologies in decision making optimization and control while Part 5 explores the applications of intelligent technologies Computational Intelligence Juan Julian Merelo, Fernando Melício, José M. Cadenas, António Dourado, Kurosh Madani, António Ruano, Joaquim Filipe, 2018-10-03 This book gathers revised and extended versions of the best papers presented at the 8th International Joint Conference on Computational Intelligence IJCCI 2016 which was held in Porto Portugal from 9 to 11 November 2016 The papers address three main fields of Computational Intelligence namely Evolutionary Computation Fuzzy Computation and Neural Computation In addition to highlighting recent advances in these areas the book offers veteran researchers new and innovative solutions while also providing a source of information and inspiration for newcomers to the field Hybrid Computational Intelligent Systems Siddhartha Bhattacharyya, 2023-05-03 Hybrid Computational Intelligent Systems Modeling Simulation and Optimization

unearths the latest advances in evolving hybrid intelligent modeling and simulation of human centric data intensive applications optimized for real time use thereby enabling researchers to come up with novel breakthroughs in this ever growing field Salient features include the fundamentals of modeling and simulation with recourse to knowledge based simulation interaction paradigms and human factors along with the enhancement of the existing state of art in a high performance computing setup In addition this book presents optimization strategies to evolve robust and failsafe intelligent system modeling and simulation The volume also highlights novel applications for different engineering problems including signal and data processing speech image sensor data processing innovative intelligent systems and swarm intelligent manufacturing systems Features A self contained approach to integrating the principles of hybrid computational intelligence with system modeling and simulation Well versed foundation of computational intelligence and its application to real life engineering problems Elucidates essential background concepts definitions and theories thereby putting forward a complete treatment on the subject Effective modeling of hybrid intelligent systems forms the backbone of almost every operative system in real life Proper simulation of real time hybrid intelligent systems is a prerequisite for deriving any real life system solution Optimized system modeling and simulation enable real time and failsafe operations of the existing hybrid intelligent system solutions Information presented in an accessible way for researchers engineers developers and practitioners from academia and industry working in all major areas and interdisciplinary areas of hybrid computational intelligence and communication systems to evolve human centered modeling and simulations of real time data intensive intelligent systems

Fuzzy Multicriteria Decision-Making Witold Pedrycz,Petr Ekel,Roberta Parreiras,2011-06-15 Fuzzy Multicriteria Decision Making Models Algorithms and Applications addresses theoretical and practical gaps in considering uncertainty and multicriteria factors encountered in the design planning and control of complex systems Including all prerequisite knowledge and augmenting some parts with a step by step explanation of more advanced concepts the authors provide a systematic and comprehensive presentation of the concepts design methodology and detailed algorithms These are supported by many numeric illustrations and a number of application scenarios to motivate the reader and make some abstract concepts more tangible Fuzzy Multicriteria Decision Making Models Algorithms and Applications will appeal to a wide audience of researchers and practitioners in disciplines where decision making is paramount including various branches of engineering operations research economics and management it will also be of interest to graduate students and senior undergraduate students in courses such as decision making management risk management operations research numerical methods and knowledge based systems *Applied Computational Intelligence in Engineering and Information Technology* Radu-Emil Precup,Szilveszter Kovács,Stefan Preitl,Emil M. Petriu,2012-03-22 This book highlights the potential of getting benefits from various applications of computational intelligence techniques The present book is structured such that to include a set of selected and extended papers from the 6th IEEE International Symposium on Applied Computational Intelligence and

Informatics SACI 2011 held in Timisoara Romania from 19 to 21 May 2011 After a serious paper review performed by the Technical Program Committee only 116 submissions were accepted leading to a paper acceptance ratio of 65 % A further refinement was made after the symposium based also on the assessment of the presentation quality Concluding this book includes the extended and revised versions of the very best papers of SACI 2011 and few invited papers authored by prominent specialists The readers will benefit from gaining knowledge of the computational intelligence and on what problems can be solved in several areas they will learn what kind of approaches is advised to use in order to solve these problems A very important benefit for the readers is an understanding of what the major difficulties are and the cost effective solutions to deal with them This book will offer a convenient entry for researchers and engineers who intend to work in the important fields of computational intelligence

Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials Muduli, Kamalakanta, Moharana, Bikash Ranjan, Ales, Steve Korakan, Biswal, Dillip Kumar, 2025-04-23

The shift toward sustainable manufacturing is vital for addressing the pressing environmental challenges of the 21st century By integrating sustainability principles manufacturing processes can minimize resource consumption reduce greenhouse gas emissions and extend product lifecycles This approach emphasizes designing for regeneration using eco friendly materials and adopting advanced digital technologies like artificial intelligence AI Internet of Things IoT and blockchain to optimize production and promote environmental stewardship Sustainable manufacturing not only mitigates ecological harm but also fosters innovation enhances competitiveness and supports long term economic and societal resilience Adopting such practices is essential for transitioning to a more responsible and sustainable global economy Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials highlights how the application of computational intelligence techniques can promote resource and environmental sustainability in manufacturing systems and operational practices It further examines how sustainable practices and advanced technologies in materials manufacturing can revolutionize production processes while minimizing environmental impact and promoting resource efficiency Covering topics such as energy storage nanoparticles and biomaterials this book is an excellent resource for computer scientists business professionals manufacturers environmentalists researchers professionals scholars academicians and more

Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics Khosrow-Pour, D.B.A., Mehdi, 2018-10-19 From cloud computing to data analytics society stores vast supplies of information through wireless networks and mobile computing As organizations are becoming increasingly more wireless ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative Advanced Methodologies and Technologies in Network Architecture Mobile Computing and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data This book is an important resource for

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