

International Journal of  
**Computational  
Intelligence and  
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*Editor-in-Chief*

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**World Scientific**

# International Journal Of Computational Intelligence And Applications

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Alkhayyat**

## **International Journal Of Computational Intelligence And Applications:**

**COMPUTATIONAL INTELLIGENCE IN COMPLEX DECISION MAKING SYSTEMS** Ruan Da,2010-06-01 In recent years there has been a growing interest in the need for designing intelligent systems to address complex decision systems One of the most challenging issues for the intelligent system is to effectively handle real world uncertainties that cannot be eliminated These uncertainties include various types of information that are incomplete imprecise fragmentary not fully reliable vague contradictory deficient and overloading The uncertainties result in a lack of the full and precise knowledge of the decision system including the determining and selection of evaluation criteria alternatives weights assignment scores and the final integrated decision result Computational intelligent techniques including fuzzy logic neural networks and genetic algorithms etc which are complimentary to the existing traditional techniques have shown great potential to solve these demanding real world decision problems that exist in uncertain and unpredictable environments These technologies have formed the foundation for intelligent systems

**Computational Intelligence in Industry 4.0 and 5.0 Applications** JOSEPH BAMIDELE AWOTUNDE,Kamalakanta Muduli,BISWAJIT BRAHMA,2025-02-06 Industry 4 0 and 5 0 applications will revolutionize production enabling smart manufacturing machines to interact with their environments These machines will become self aware self learning and capable of real time data interpretation for self diagnosis and prevention of production issues They will also self calibrate and prioritize tasks to enhance production quality and efficiency Computational Intelligence in Industry 4 0 and 5 0 Applications examines applications that merge three key disciplines computational intelligence CI Industry 4 0 and Industry 5 0 It presents solutions using Industrial Internet of Things IIoT technologies augmented by CI based techniques modeling controls estimations applications systems and future scopes These applications use data from smart sensors processed through enhanced CI methods to make smart automation more effective Industry 4 0 integrates data and intelligent automation into manufacturing using technologies like CI the IoT the IIoT and cloud computing It transforms data into actionable insights for decision making and process optimization essential for modern competitive businesses managing high speed data integration in production processes Currently Industries 4 0 and 5 0 are undergoing significant transformations due to advances in applying artificial intelligence AI big data analytics telecommunication technologies and control theory These applications are increasingly multidisciplinary integrating mechanical control and information technologies However they face such technical challenges as parametric uncertainties external disturbances sensor noise and mechanical failures To address these this book examines such CI technologies as fuzzy logic neural networks and reinforcement learning and their application to modeling control and estimation It also covers recent advancements in IIoT sensors microcontrollers and big data analytics that further enhance CI based solutions in Industry 4 0 and 5 0 systems

**Challenges for Computational Intelligence** Jacek Mandziuk,2007-06-26 In recent years computational intelligence has been extended by adding many other subdisciplines and this new field requires a series

of challenging problems that will give it a sense of direction in order to ensure that research efforts are not wasted This book written by top experts in computational intelligence provides such clear directions and a much needed focus on the most important and challenging research issues      *Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications* Arun Kumar Sangaiah,Zhiyong Zhang,Michael Sheng,2018-08-21 Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications covers timely topics including the neural network NN particle swarm optimization PSO evolutionary algorithm GA fuzzy sets FS and rough sets RS etc Furthermore the book highlights recent research on representative techniques to elaborate how a data centric system formed a powerful platform for the processing of cloud hosted multimedia big data and how it could be analyzed processed and characterized by CI The book also provides a view on how techniques in CI can offer solutions in modeling relationship pattern recognition clustering and other problems in bioengineering It is written for domain experts and developers who want to understand and explore the application of computational intelligence aspects opportunities and challenges for design and development of a data centric system in the context of multimedia cloud big data era and its related applications such as smarter healthcare homeland security traffic control trading analysis and telecom etc Researchers and PhD students exploring the significance of data centric systems in the next paradigm of computing will find this book extremely useful Presents a brief overview of computational intelligence paradigms and its significant role in application domains Illustrates the state of the art and recent developments in the new theories and applications of CI approaches Familiarizes the reader with computational intelligence concepts and technologies that are successfully used in the implementation of cloud centric multimedia services in massive data processing Provides new advances in the fields of CI for bio engineering application      *Advanced Methods and Applications in Computational Intelligence* Ryszard Klempous,Jan Nikodem,Witold Jacak,Zenon Chaczko,2013-07-20 This book offers an excellent presentation of intelligent engineering and informatics foundations for researchers in this field as well as many examples with industrial application It contains extended versions of selected papers presented at the inaugural ACASE 2012 Conference dedicated to the Applications of Systems Engineering This conference was held from the 6th to the 8th of February 2012 at the University of Technology Sydney Australia organized by the University of Technology Sydney Australia Wroclaw University of Technology Poland and the University of Applied Sciences in Hagenberg Austria The book is organized into three main parts Part I contains papers devoted to the heuristic approaches that are applicable in situations where the problem cannot be solved by exact methods due to various characteristics or dimensionality problems Part II covers essential issues of the network management presents intelligent models of the next generation of networks and distributed systems as well as discusses applications of modern numerical methods in large intractable systems Part III covers salient issues of complexity in intelligent system applications This part also contains papers and articles which discuss concurrency issues that arise when multiple systems attempt to use the same radio space and the inter connected system

applications in the field of medical simulation and training

### **Improving Information Security Practices through**

**Computational Intelligence** Awad, Wasan Shaker, 2015-08-26 The recent explosion in complex global networking architectures has spurred a concomitant rise in the need for robust information security Further as computing power increases exponentially with every passing year so do the number of proposed cryptographic schemata for improving and ensuring the encryption integrity of cutting edge infosec protocols Improving Information Security Practices through Computational Intelligence presents an overview of the latest and greatest research in the field touching on such topics as cryptology stream ciphers and intrusion detection and providing new insights to an audience of students teachers and entry level researchers working in computational intelligence information security and security engineering

### **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

### **Advances in**

**Computational Intelligence and Its Applications** Sheikh Fahad Ahmad, Shadab Siddiqui, Rajib Debnath, Kakali Das, Figlu Mohanty, Sumit Hazra, 2024-06-07 It is with great pleasure and enthusiasm that we welcome you to the International Conference on Advances in Computational Intelligence and its Applications ICACIA 2023 In the ever evolving landscape of technology computational intelligence stands as a cornerstone shaping the future of diverse fields and industries This conference serves as a nexus for researchers academicians and industry experts to converge exchange ideas and explore the latest advancements in the realm of computational intelligence

### **Applications of Computational Intelligence in**

**Management and Mathematics II** Frank Lin, Ashok Patel, Nishtha Kesswani, Bosubabu Sambana, 2025-10-01 This volume encapsulates the collective knowledge shared and innovations presented at the 9th International Conference on Computers Management Mathematical Sciences ICCM 2023 held on the 24th and 25th of August 2023 at the North Eastern Regional Institute of Science and Technology NERIST India The ICCM 2023 was a hybrid conference featuring both in person and virtual attendance and explores the transformative role of computational intelligence in solving complex problems across management and mathematics Computational intelligence encompasses techniques inspired by the human brain and nature such as fuzzy systems neural networks and evolutionary computation that excel in stochastic environments where reasoning is essential to derive meaningful solutions The proceedings offer a comprehensive overview of how these powerful algorithms

and principles are applied to a diverse array of research challenges with a particular emphasis on computational aspects in the business domain. Scholars, researchers, and students will find invaluable insights into the development and implementation of innovative methods tailored to real-world scenarios.

**Key Highlights:**

- Application of fuzzy logic to decision making in uncertain environments
- Advances in neural networks for predictive analysis and optimization
- Evolutionary computation techniques for addressing complex multi-variable problems
- Insights into computational methods that bridge management theory and mathematical models

This volume serves as a critical resource for anyone seeking to harness computational intelligence to push the boundaries of research in management and mathematics. Whether you are a student embarking on your academic journey or a seasoned scholar, this book provides the tools and knowledge needed to navigate this dynamic field.

Healthcare Analytics and Advanced Computational Intelligence Sushruta Mishra, Meshal Alharbi, Hrudaya Kumar Tripathy, Biswajit Sahoo, Ahmed Alkhayyat, 2024-07-31. This book aims to apply state-of-the-art advanced computational intelligence frameworks in healthcare. It presents recent and real-life applications of computationally intelligent healthcare. It also discusses problems and solutions to remote healthcare and emergency healthcare services. Healthcare Analytics and Advanced Computational Intelligence highlights modern ambient intelligence-enabled healthcare models along with advanced topics like quantum computing in healthcare and cryptomedical systems. Healthcare Analytics and Advanced Computational Intelligence examines designing the latest medical systems and models that will allow the societal acceptance of ambient computing in healthcare, medical imaging, health analytics, machine intelligence, sensory computing, medical data analytics, disease detection, telemedicine, and their applications. It includes diverse case studies dealing with various clinical-based applications. These intelligent models are primarily structured to deal with complex real-world issues in clinical data analytics by means of state-of-the-art techniques with general implementation, domain-specific solutions, or hybrid methods which integrate computational intelligence with conventional statistical methods. The book is written for researchers and academicians in diverse areas. Engineers from technical disciplines such as computer engineering are likely to purchase the book. Various sub-streams such as machine learning, big data analytics, healthcare analytics, and computational intelligence will find the book significant for their curriculum.

Business Applications and Computational Intelligence Kevin E. Voges, Nigel Pope, 2006-01-01. This book deals with the computational intelligence field, particularly business applications adopting computational intelligence techniques. Provided by publisher.

Applications of Computational Intelligence in Multi-Disciplinary Research Ahmed A. Elngar, Rajdeep Chowdhury, Mohamed Elhoseny, Valentina Emilia Balas, 2022-02-14. Applications of Computational Intelligence in Multi-Disciplinary Research provides the readers with a comprehensive handbook for applying the powerful principles, concepts, and algorithms of computational intelligence to a wide spectrum of research cases. The book covers the main approaches used in computational intelligence, including fuzzy logic, neural networks, evolutionary computation, learning theory, and probabilistic methods, all of

which can be collectively viewed as soft computing Other key approaches included are swarm intelligence and artificial immune systems These approaches provide researchers with powerful tools for analysis and problem solving when data is incomplete and when the problem under consideration is too complex for standard mathematics and the crisp logic approach of Boolean computing Provides an overview of the key methods of computational intelligence including fuzzy logic neural networks evolutionary computation learning theory and probabilistic methods Includes case studies and real world examples of computational intelligence applied in a variety of research topics including bioinformatics biomedical engineering big data analytics information security signal processing machine learning nanotechnology and optimization techniques Presents a thorough technical explanation on how computational intelligence is applied that is suitable for a wide range of multidisciplinary and interdisciplinary research

**Computational Intelligence and Data Sciences** Ayodeji Olalekan Salau, Shruti Jain, Meenakshi Sood, 2022-03-10 This book presents futuristic trends in computational intelligence including algorithms as applicable to different application domains in health informatics covering bio medical bioinformatics and biological sciences Latest evolutionary approaches to solve optimization problems under biomedical engineering field are discussed It provides conceptual framework with a focus on application of computational intelligence techniques in the domain of biomedical engineering and health informatics including real time issues

**Computational Intelligence Applications in Cyber Security** Suhel Ahmad Khan, Mohammad Faisal, Nawaf Alharbe, Rajeev Kumar, Raees Ahmad Khan, 2024-10-29 The book provides a comprehensive overview of cyber security in Industry 5 0 data security in emerging technologies block chain technology cloud computing security evolving IoT and OT threats and considerable data integrity in healthcare The impact of security risks on various sectors is explored including artificial intelligence in national security quantum computing for security and AI driven cyber security techniques It explores how cyber security is applied across different areas of human life through computational modeling The book concludes by presenting a roadmap for securing computing environments addressing the complex interplay between advanced technologies and emerging security challenges and offering insights into future trends and innovations for sustainable development This book Analyzes the use of AI support vector machines and deep learning for data classification vulnerability prediction and defense Provides insights into data protection for Industry 4 0 5 0 cloud computing and IoT OT focusing on risk mitigation Explores block chain's role in smart nations financial risk management and the potential of quantum computing for security Examines AI's applications in national security including India's AI strategy and securing smart cities Evaluate strategies for data integrity in healthcare secure IoT platforms and supply chain cyber security The text is primarily written for senior undergraduate graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and information technology

Recent Trends in Computational Intelligence and Its Application Sugumaran D, Souvik Pal, Dac-Nhuong Le, Noor Zaman Jhanjhi, 2023-06-15 The increase in computing power and sensor data

has driven Information Technology on end devices such as smart phones or automobiles The widespread application of IT across the globe includes manufacturing engineering retail e commerce health care education financial services banking space exploration politics to help predict the sentiments of voter demographics etc The papers in this conference proceeding examine and discuss various interdisciplinary researches that could accelerate the advent of Information Technology

**Computational Intelligence Techniques and Their Applications to Software Engineering Problems** Ankita Bansal, Abha Jain, Sarika Jain, Vishal Jain, Ankur Choudhary, 2020-09-27 Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems

**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

Progressive Computational Intelligence, Information Technology and Networking Poonam Nandal, Mamta Dahiya, Meeta Singh, Arvind Dagur, Brijesh Kumar, 2025-07-22 Progressive Computational Intelligence Information Technology and Networking presents a rich and diverse collection of cutting edge research real world applications and innovative methodologies spanning across multiple domains of computer science artificial intelligence and emerging technologies This comprehensive volume brings together different scholarly chapters contributed by researchers practitioners and thought



leaders from around the globe The book explores a wide array of topics including but not limited to machine learning deep learning cloud computing cybersecurity Internet of Things IoT blockchain natural language processing image processing and data analytics It addresses the practical implementation of technologies in sectors such as healthcare agriculture education smart cities environmental monitoring finance and more Each chapter delves into specific challenges frameworks and experimental outcomes making this book an essential reference for academicians researchers industry professionals and students who aim to stay ahead in the rapidly evolving digital world

**Computational Intelligence for Medical Internet of Things (MIoT) Applications** Yassine Maleh,Ahmed A. Abd El-Latif,Kevin Curran,Patrick Siarry,2023-01-25

Computational Intelligence for Medical Internet of Things MIoT Applications Machine Intelligence Applications for IoT in Healthcare explores machine intelligence techniques necessary for effective MIoT research and practice taking a practical approach for practitioners and students entering the field This book investigates advanced concepts and applications in the MIoT field guiding readers through emerging developments and future trends A wide range of international authors guide readers through advanced concepts including deep learning neural network and big data analytic approaches for the classification indexing retrieval analysis and inferencing of healthcare data Presents the state of the art in machine intelligence and related technologies and methodologies for IoT in healthcare Discusses emerging developments and trends in machine intelligence for business and decision making strategy in healthcare Features new models practical solutions prototypes frameworks and technological advances related to machine intelligence for MIoT applications

**Data Analytics and Computational Intelligence: Novel Models, Algorithms and Applications** Gilberto Rivera,Laura

Cruz-Reyes,Bernabé Dorronsoro,Alejandro Rosete,2023-09-12 In the age of transformative artificial intelligence AI which has the potential to revolutionize our lives this book provides a comprehensive exploration of successful research and applications in AI and data analytics Covering innovative approaches advanced algorithms and data analysis methodologies this book addresses complex problems across topics such as machine learning pattern recognition data mining optimization and predictive modeling With clear explanations practical examples and cutting edge research this book seeks to expand the understanding of a wide readership including students researchers practitioners and technology enthusiasts eager to explore these exciting fields Featuring real world applications in education health care climate modeling cybersecurity smart transportation conversational systems and material analysis among others this book highlights how these technologies can drive innovation and generate competitive advantages

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