
Computational Intelligence In Information Systems Proceedings Of The Fourth Inns Symposia Series On Computational Intelligence In Information Systems In Intelligent Systems And Computing

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And Computing*

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LAM NICKOLAS

Intelligent Systems in Operations:
Methods, Models and Applications in the
Supply Chain Springer Nature

The College of Computing and Informatics (CCI) at UNC-Charlotte has three departments: Computer Science, Software and Information Systems, and Bioinformatics and Genomics. The

Department of Computer Science offers study in a variety of specialized computing areas such as database design, knowledge systems, computer graphics, artificial intelligence, computer networks, game design, visualization, computer vision, and virtual reality. The Department of Software and Information Systems is primarily focused on the study of technologies and methodologies for information system architecture, design, implementation, integration, and management with particular emphasis on system security. The Department of Bioinformatics and Genomics focuses on the discovery, development and application of novel computational technologies to help solve important biological problems. This volume gives an overview of research done by CCI faculty in the area of Information & Intelligent Systems. Presented papers focus on recent advances in four major directions: Complex Systems, Knowledge Management, Knowledge Discovery, and Visualization. A major reason for producing this book was to demonstrate a new, important thrust in academic research where college-wide interdisciplinary efforts

are brought to bear on large, general, and important problems. As shown in the research described here, these efforts need not be formally organized joint undertakings (through parts could be) but are rather a convergence of interests around grand themes.

Artificial Intelligence and Computational Intelligence Springer Nature

The book is a timely report on advanced methods and applications of computational intelligence systems. It covers a long list of interconnected research areas, such as fuzzy systems, neural networks, evolutionary computation, evolving systems and machine learning. The individual chapters are based on peer-reviewed contributions presented at the 16th Annual UK Workshop on Computational Intelligence, held on September 7-9, 2016, in Lancaster, UK. The book puts a special emphasis on novel methods and reports on their use in a wide range of applications areas, thus providing both academics and professionals with a comprehensive and timely overview of new trends in computational intelligence.

Research and Applications Springer Nature

This book constitutes the refereed proceedings of the International Conference on Artificial Intelligence and Computational Intelligence, AICI 2009, held in Shanghai, China, on November 7-8, 2009. The 79 revised full papers presented in this volume were carefully reviewed and selected from 1203 submissions. The papers are organized in topical sections on support vector machine, rough set theory, particle swarm optimization, neural computation, intelligent agents and systems, information security, immune computation, genetic algorithms, fuzzy computation, biological computing, applications of computational intelligence, ant colony algorithm, robotics, pattern recognition, neural networks, natural language processing, machine vision, machine learning, logic reasoning and theorem-proving, knowledge representation and acquisition, intelligent signal processing, intelligent scheduling, intelligent information retrieval, intelligent information fusion, intelligent image processing, heuristic searching methods, fuzzy logic and soft computing, distributed AI and agents, data mining and knowledge discovering, applications of artificial

intelligence, and others.

Handbook of Computational Intelligence in Manufacturing and Production Management Springer

This book constitutes the refereed proceedings of the Fourth International Neural Network Symposia series on Computational Intelligence in Information Systems, INNS-CIIS 2014, held in Bandar Seri Begawan, Brunei in November 2014. INNS-CIIS aims to provide a platform for researchers to exchange the latest ideas and present the most current research advances in general areas related to computational intelligence and its applications in various domains. The 34 revised full papers presented in this book have been carefully reviewed and selected from 72 submissions. They cover a wide range of topics and application areas in computational intelligence and informatics.

Computational Intelligence for Real-Life Applications Springer Science & Business Media

Due to the ability to handle specific characteristics of economics and finance forecasting problems like e.g. non-linear relationships, behavioral changes, or

knowledge-based domain segmentation, we have recently witnessed a phenomenal growth of the application of computational intelligence methodologies in this field. In this volume, Chen and Wang collected not just works on traditional computational intelligence approaches like fuzzy logic, neural networks, and genetic algorithms, but also examples for more recent technologies like e.g. rough sets, support vector machines, wavelets, or ant algorithms. After an introductory chapter with a structural description of all the methodologies, the subsequent parts describe novel applications of these to typical economics and finance problems like business forecasting, currency crisis discrimination, foreign exchange markets, or stock markets behavior.

Proceedings of the Computational Intelligence in Information Systems Conference (CIIS 2020) Springer

This book primarily addresses Intelligent Information Systems (IIS) and the integration of artificial intelligence, intelligent systems and technologies, database technologies and information systems methodologies to create the next generation of information systems. It

includes original and state-of-the-art research on theoretical and practical advances in IIS, system architectures, tools and techniques, as well as “success stories” in intelligent information systems. Intended as an interdisciplinary forum in which scientists and professionals could share their research results and report on new developments and advances in intelligent information systems, technologies and related areas – as well as their applications – , it offers a valuable resource for researchers and practitioners alike.

4th IFIP TC 12 International Conference, ICCIDS 2021, Chennai, India, March 18-20, 2021, Revised Selected Papers Springer Nature

This book constitutes the refereed post-conference proceedings of the Third IFIP TC 12 International Conference on Computational Intelligence in Data Science, ICCIDS 2020, held in Chennai, India, in February 2020. The 19 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 94 submissions. The papers are organized in the following topical sections: computational intelligence for

text analysis; computational intelligence for image and video analysis; and data science.

Contributions Presented at the 18th UK Workshop on Computational Intelligence, September 5-7, 2018, Nottingham, UK

Springer Science & Business Media

The research scenario in advanced systems for protecting critical infrastructures and for deeply networked information tools highlights a growing link between security issues and the need for intelligent processing abilities in the area of information systems. To face the ever-evolving nature of cyber-threats, monitoring systems must have adaptive capabilities for continuous adjustment and timely, effective response to modifications in the environment. Moreover, the risks of improper access pose the need for advanced identification methods, including protocols to enforce computer security policies and biometry-related technologies for physical authentication. Computational Intelligence methods offer a wide variety of approaches that can be fruitful in those areas, and can play a crucial role in the adaptive process by their ability to learn empirically and adapt a system's

behaviour accordingly. The International Workshop on Computational Intelligence for Security in Information Systems (CISIS) proposes a meeting ground to the various communities - involved in building intelligent systems for security, namely: information security, data mining, adaptive learning methods and soft computing among others. The main goal is to allow experts and researchers to assess the benefits of learning methods in the data-mining area for information-security applications. The Workshop offers the opportunity to interact with the leading industries actively involved in the critical area of security, and have a picture of the current solutions adopted in practical domains. This volume of *Advances in Soft Computing* contains accepted papers presented at CISIS'08, which was held in Genova, Italy, on October 23rd-24th, 2008.

Advances in Computational Intelligence Systems CRC Press

This book highlights the latest research in computational intelligence and its applications. It covers both conventional and trending approaches in individual chapters on Fuzzy Systems, Intelligence in

Robotics, Deep Learning Approaches, Optimization and Classification, Detection, Inference and Prediction, Hybrid Methods, Emerging Intelligence, Intelligent Health Care, and Engineering Data- and Model-Driven Applications. All chapters are based on peer-reviewed contributions presented at the 19th Annual UK Workshop on Computational Intelligence, held in Portsmouth, UK, on 4-6 September 2019. The book offers a valuable reference guide for readers with expertise in computational intelligence or who are seeking a comprehensive and timely review of the latest trends in computational intelligence. Special emphasis is placed on novel methods and their use in a wide range of application areas, updating both academics and professionals on the state of the art.

Breakthroughs in Software Science and Computational Intelligence

Computational Intelligence in Information Systems Proceedings of the Computational Intelligence in Information Systems Conference (CIIS 2020)

This book presents the most recent concerns and research results in industrial fault diagnosis using intelligent

techniques. It focuses on computational intelligence applications to fault diagnosis with real-world applications used in different chapters to validate the different diagnosis methods. The book includes one chapter dealing with a novel coherent fault diagnosis distributed methodology for complex systems.

Computational Intelligence for Information Retrieval IGI Global

Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control

strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

Proceedings of the International Workshop on Computational Intelligence in Security for Information Systems CISIS 2008

Springer Science & Business Media This book presents the proceedings of the 4th International Conference of Reliable Information and Communication Technology 2019 (IRICT 2019), which was held in Pulau Springs Resort, Johor, Malaysia, on September 22-23, 2019.

Featuring 109 papers, the book covers hot topics such as artificial intelligence and soft computing, data science and big data analytics, internet of things (IoT), intelligent communication systems, advances in information security, advances in information systems and software engineering.

Computational Intelligence for Business Analytics Walter de Gruyter GmbH & Co KG

Volumes CCIS 51 and LNCS 5812 constitute the proceedings of the Fourth International Symposium on Intelligence Computation and Applications, ISICA 2009, held in Huangshi, China, during October 23-25. ISICA 2009 attracted over 300 submissions. Through rigorous reviews, 58 papers were included in LNCS 5821, and 54 papers were collected in CCIS 51. ISICA conferences are one of the first series of international conferences on computational intelligence that combine elements of learning, adaptation, evolution and fuzzy logic to create programs as alternative solutions to artificial intelligence.

Computational Intelligence in Fault Diagnosis Springer Nature

This book is intended for specialists as well as students and graduate students in the field of artificial intelligence, robotics and information technology. It will also appeal to a wide range of readers interested in expanding the functionality of artificial intelligence systems. One of the pressing problems of modern artificial intelligence systems is the development of integrated hybrid systems based on deep learning. Unfortunately, there is currently no universal methodology for developing topologies of hybrid neural networks (HNN) using deep learning. The development of such systems calls for the expansion of the use of neural networks (NS) for solving recognition, classification and optimization problems. As such, it is necessary to create a unified methodology for constructing HNN with a selection of models of artificial neurons that make up HNN, gradually increasing the complexity of their structure using hybrid learning algorithms.

Information and Knowledge Systems. Digital Technologies, Artificial Intelligence and Decision Making IGI Global

This book of Advances in Intelligent and

Soft Computing contains accepted papers presented at CISIS 2021 and ICEUTE 2021, all conferences held in the beautiful and historic city of Bilbao (Spain), in September 2021. The aim of the 14th CISIS 2021 conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of computational intelligence, information security, and data mining. The need for intelligent, flexible behavior by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for the overall event. After a thorough peer-review process, the CISIS 2021 International Program Committee selected 23 papers which are published in these conference proceedings achieving an acceptance rate of 40%. In this relevant edition, a special emphasis was put on the organization of special sessions. One special session is organized related to relevant topics as follows: building trust in ecosystems and ecosystem components. In the case of 12th ICEUTE 2021, the International Program Committee selected 17 papers, which are published in these

conference proceedings. One special session is organized related to relevant topics as follows: sustainable personal goals: engaging students in their learning process. The selection of papers is extremely rigorous in order to maintain the high quality of the conference, and we would like to thank the members of the program committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference, and the CISIS and ICEUTE conferences would not exist without their help.

Paradigms in Biomedical Engineering John Wiley & Sons

Quantum Inspired Computational Intelligence: Research and Applications explores the latest quantum computational intelligence approaches, initiatives, and applications in computing, engineering, science, and business. The book explores this emerging field of research that applies principles of quantum mechanics to develop more efficient and robust intelligent systems. Conventional computational intelligence—or soft computing—is conjoined with quantum computing to

achieve this objective. The models covered can be applied to any endeavor which handles complex and meaningful information. Brings together quantum computing with computational intelligence to achieve enhanced performance and robust solutions Includes numerous case studies, tools, and technologies to apply the concepts to real world practice Provides the missing link between the research and practice

Academic Press

Information and computer technologies for data analysis and processing in various fields of data mining and machine learning generates the conditions for increasing the effectiveness of information processing by making it faster and more accurate. The book includes 49 scientific papers presenting the latest research in the fields of data mining, machine learning and decision-making. Divided into three

sections: "Analysis and Modeling of Complex Systems and Processes"; "Theoretical and Applied Aspects of Decision-Making Systems"; and "Computational Intelligence and Inductive Modeling", the book is of interest to scientists and developers in the field.

Advances in Computational Intelligence Systems Morgan Kaufmann

This book constitutes the refereed proceedings of the 4th International Conference on Computational Intelligence in Security for Information Systems, CISIS 2011, held in Torremolinos-Málaga, in June 2011 as a satellite event of IWANN 2011, the International Work-Conference on Artificial and Natural Neural Networks. The 38 revised full papers presented were carefully reviewed and selected from a total of 70 submissions. The papers are organized in topical sections on machine

learning and intelligence, network security, cryptography, securing software, and applications of intelligent methods for security.

Business Applications and Computational Intelligence Springer Nature

"This book deals with the computational intelligence field, particularly business applications adopting computational intelligence techniques"--Provided by publisher.

Proceedings of the 3rd International Conference on Computational Intelligence in Security for Information Systems (CISIS'10) CRC Press

"This book provides knowledge and insights on present and future AI applications in Operations Management presenting tools and decisions in terms of theoretical and empirical models, methods and proposed applications"--Provided by publisher.