

**STUDIES IN FUZZINESS  
AND SOFT COMPUTING**

# **in Fuzziness and Soft Computing**

**Ajith Abraham · Lakhmi C. Jain  
Janusz Kacprzyk**  
Editors

## **Recent Advances in Intelligent Paradigms and Applications**



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# Recent Advances In Intelligent Paradigms And Applications

**Leszek Rutkowski, Marcin  
Korytkowski, Rafał Scherer, Ryszard  
Tadeusiewicz, Lotfi Zadeh, Jacek Zurada**



## **Recent Advances In Intelligent Paradigms And Applications:**

**Recent Advances in Intelligent Paradigms and Applications** Ajith Abraham, 2013-03-20 Digital systems that bring together the computing capacity for processing large bodies of information with the human cognitive capability are called intelligent systems Building these systems has become one of the great goals of modern technology This goal has both intellectual and economic incentives The need for such intelligent systems has become more intense in the face of the global connectivity of the internet There has become an almost insatiable requirement for instantaneous information and decision brought about by this confluence of computing and communication This requirement can only be satisfied by the construction of innovative intelligent systems A second and perhaps an even more significant development is the great advances being made in genetics and related areas of biotechnology Future developments in biotechnology may open the possibility for the development of a true human silicon interaction at the micro level neural and cellular bringing about a need for intelligent systems What is needed to further the development of intelligent systems are tools to enable the representation of human cognition in a manner that allows formal manipulation The idea of developing such an algebra goes back to Leibniz in the 17th century with his dream of a calculus ratiocinator It wasn't until two hundred years later beginning with the work of Boole Cantor and Frege that a formal mathematical logic for modeling human reasoning was developed The introduction of the modern digital computer during the Second World War by von Neumann and others was a culmination of this intellectual trend

**Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications** Hariton Costin, Björn Schuller, Adina Magda Florea, 2019-11-07 This book illustrates the rapid pace of development in intelligent assistive technology in recent years and highlights some salient examples of using modern IT C technologies to provide devices systems and application software for persons with certain motor or cognitive disabilities The book proposes both theoretical and practical approaches to intelligent assistive and emergent technologies used in healthcare for the elderly and patients with chronic diseases Intelligent assistive technology IAT is currently being introduced and developed worldwide as an important tool for maintaining independence and high quality of life among community living people with certain disabilities and as a key enabler for the aging population The book offers a valuable resource for students at technical medical and general universities but also for specialists working in various fields in which emergent technologies are being used to help people enjoy optimal quality of life

**Recent Advances in Intelligent Paradigms and Applications** Ajith Abraham, 2014-09-01

**Machine Learning Paradigms** Maria Virvou, Efthimios Alepis, George A. Tsihrintzis, Lakhmi C. Jain, 2019-03-16 This book presents recent machine learning paradigms and advances in learning analytics an emerging research discipline concerned with the collection advanced processing and extraction of useful information from both educators and learners data with the goal of improving education and learning systems In this context internationally respected researchers present various aspects of learning analytics and selected application areas including Using learning

analytics to measure student engagement to quantify the learning experience and to facilitate self regulation Using learning analytics to predict student performance Using learning analytics to create learning materials and educational courses and Using learning analytics as a tool to support learners and educators in synchronous and asynchronous eLearning The book offers a valuable asset for professors researchers scientists engineers and students of all disciplines Extensive bibliographies at the end of each chapter guide readers to probe further into their application areas of interest

*Artificial Intelligence Paradigms for Smart Cyber-Physical Systems* Luhach, Ashish Kumar, Elçi, Atilla, 2020-11-13 Cyber physical systems CPS have emerged as a unifying name for systems where cyber parts i e the computing and communication parts and physical parts are tightly integrated both in design and during operation Such systems use computations and communication deeply embedded in and interacting with human physical processes as well as augmenting existing and adding new capabilities As such CPS is an integration of computation networking and physical processes Embedded computers and networks monitor and control the physical processes with feedback loops where physical processes affect computations and vice versa The economic and societal potential of such systems is vastly greater than what has been realized and major investments are being made worldwide to develop the technology Artificial Intelligence Paradigms for Smart Cyber Physical Systems focuses on the recent advances in Artificial intelligence based approaches towards affecting secure cyber physical systems This book presents investigations on state of the art research issues applications and achievements in the field of computational intelligence paradigms for CPS Covering topics that include autonomous systems access control machine learning and intrusion detection and prevention systems this book is ideally designed for engineers industry professionals practitioners scientists managers students academicians and researchers seeking current research on artificial intelligence and cyber physical systems

**Smart Computing Paradigms: New Progresses and Challenges** Atilla Elçi, Pankaj Kumar Sa, Chirag N. Modi, Gustavo Olague, Manmath N. Sahoo, Sambit Bakshi, 2019-11-30 This two volume book focuses on both theory and applications in the broad areas of communication technology computer science and information security It brings together contributions from scientists professors scholars and students and presents essential information on computing networking and informatics It also discusses the practical challenges encountered and the solutions used to overcome them the goal being to promote the translation of basic research into applied research and of applied research into practice The works presented here will also demonstrate the importance of basic scientific research in a range of fields

Recent Advances in Intelligent Engineering Levente Kovács, Tamás Haidegger, Anikó Szakál, 2019-03-15 This book gathers contributions on fuzzy neural control intelligent and non linear control dynamic systems and cyber physical systems It presents the latest theoretical and practical results including numerous applications of computational intelligence in various disciplines such as engineering medicine technology and the environment The book is dedicated to Imre J Rudas on his seventieth birthday

**Edge Computing and Computational Intelligence Paradigms for the IoT** Nagarajan, G., Minu, R.I., 2019-06-14 Edge

computing is focused on devices and technologies that are attached to the internet of things IoT Identifying IoT use across a range of industries and measuring strategic values helps identify what technologies to pursue and can avoid wasted resources on deployments with limited values Edge Computing and Computational Intelligence Paradigms for the IoT is a critical research book that provides a complete insight on the recent advancements and integration of intelligence in IoT This book highlights various topics such as disaster prediction governance and healthcare It is an excellent resource for researchers working professionals academicians policymakers and defense companies

**Recent Developments in Intelligent Nature-Inspired Computing** Patnaik, Srikanta, 2017-03-09 The development of nature inspired computational techniques has enhanced problem solving in dynamic and uncertain environments By implementing effective computing strategies this ensures adaptable self organizing and decentralized behavioral techniques Recent Developments in Intelligent Nature Inspired Computing is an authoritative reference source for the latest scholarly material on natural computation methods and applications in diverse fields Highlighting multidisciplinary studies on swarm intelligence global optimization and group technology this publication is an ideal reference source for professionals researchers scholars and engineers interested in the latest developments in computer science methodologies

**The Handbook On Reasoning-based Intelligent Systems** Kazumi Nakamatsu, Lakhmi C Jain, 2013-01-18 This book consists of various contributions in conjunction with the keywords reasoning and intelligent systems which widely covers theoretical to practical aspects of intelligent systems Therefore it is suitable for researchers or graduate students who want to study intelligent systems generally

Artificial Intelligence and Soft Computing Leszek Rutkowski, Marcin Korytkowski, Rafał Scherer, Ryszard Tadeusiewicz, Lotfi Zadeh, Jacek Zurada, 2012-04-23 The two volume set LNAI 7267 and LNCS 7268 together with LNCS 7269 constitutes the refereed proceedings of the 11th International Conference on Artificial Intelligence and Soft Computing ICAISC 2012 held in Zakopane Poland in April May 2012 The 212 revised full papers presented were carefully reviewed and selected from 483 submissions The papers are organized in topical sections on neural networks and their applications computer vision image and speech analysis data mining hardware implementation bioinformatics biometrics and medical applications concurrent parallel processing agent systems robotics and control artificial intelligence in modeling and simulation various problems of artificial intelligence

**Innovations in Intelligent Machines -3** Ivan Jordanov, Lakhmi C Jain, 2012-09-05 This book aims to promote a sample of current theoretical and application oriented intelligent systems research specifically in the field of neural networks computing It presents examples of experimental and real world investigations that demonstrate contemporary achievements and advances in the area of intelligent systems This book will prove as a valuable source of up to date theoretical and application oriented research in intelligent systems for researchers and postgraduate students

Handbook of Research on Recent Developments in Intelligent Communication Application Bhattacharyya, Siddhartha, Das, Nibaran, Bhattacharjee, Debotosh, Mukherjee, Anirban, 2016-12-12 The communication field

is evolving rapidly in order to keep up with society's demands. As such, it becomes imperative to research and report recent advancements in computational intelligence as it applies to communication networks. The Handbook of Research on Recent Developments in Intelligent Communication Application is a pivotal reference source for the latest developments on emerging data communication applications. Featuring extensive coverage across a range of relevant perspectives and topics such as satellite communication, cognitive radio networks, and wireless sensor networks, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics seeking current information on emerging communication networking trends.

**Intelligent Computational Paradigms in Earthquake Engineering** Nikos D. Lagaros, Yiannis Tsompanakis, 2007-01-01. This book contains contributions that cover a wide spectrum of very important real-world engineering problems and explores the implementation of neural networks for the representation of structural responses in earthquake engineering. It assesses the efficiency of seismic design procedures and describes the latest findings in intelligent optimal control systems and their applications in structural engineering. Provided by publisher.

Soft Computing and Fractal Theory for Intelligent Manufacturing Oscar Castillo, Patricia Melin, 2012-08-11. We describe in this book new methods for intelligent manufacturing using soft computing techniques and fractal theory. Soft Computing (SC) consists of several computing paradigms including fuzzy logic, neural networks, and genetic algorithms, which can be used to produce powerful hybrid intelligent systems. Fractal theory provides us with the mathematical tools to understand the geometrical complexity of natural objects and can be used for identification and modeling purposes. Combining SC techniques with fractal theory, we can take advantage of the intelligence provided by the computer methods and also take advantage of the descriptive power of the fractal mathematical tools. Industrial manufacturing systems can be considered as non-linear dynamical systems and, as a consequence, can have highly complex dynamic behaviors. For this reason, the need for computational intelligence in these manufacturing systems has now been well recognized. We consider in this book the concept of intelligent manufacturing as the application of soft computing techniques and fractal theory for achieving the goals of manufacturing, which are production planning and control, monitoring and diagnosis of faults, and automated quality control. As a prelude, we provide a brief overview of the existing methodologies in Soft Computing. We then describe our own approach in dealing with the problems in achieving intelligent manufacturing. Our particular point of view is that to really achieve intelligent manufacturing in real-world applications, we need to use SC techniques and fractal theory.

**Artificial Intelligence** Luis Carlos Rabelo Mendizabal, 2017-11. After decades of basic research and more promises than impressive applications, artificial intelligence (AI) is starting to deliver benefits. A convergence of advances is motivating this new surge of AI development and applications. Computer capability, as it has evolved from high throughput and high performance computing systems, is increasing. AI models and operations research adaptations are becoming more mature, and the world is breeding big data not only from the web and social media but also from the Internet of Things. Organizations around the

world have been realizing that there are substantial performance gains and increases in productivity for the use of AI and predictive analytics techniques Their use is bringing a new era of breakthrough innovation and opportunities This book compiles research insights and applications in diverse areas such as manufacturing supply chain management pricing autonomous vehicles healthcare ecommerce and aeronautics Using classical and advanced tools in AI such as deep learning particle swarm optimization support vector machines and genetic programming among others This is a very distinctive book which discusses important applications using a variety of paradigms from AI and outlines some of the research to be performed The work supersedes similar books that do not cover as diversified a set of sophisticated applications The authors present a comprehensive and articulated view of recent developments identifies the applications gap by quoting from the experience of experts and details suggested research areas Artificial Intelligence Advances in Research and Applications guides the reader through an intuitive understanding of the methodologies and tools for building and modeling intelligent systems The book s coverage is broad starting with clustering techniques with unsupervised ensemble learning where the optimal combination strategy of individual partitions is robust in comparison to the selection of an algorithmic clustering pool This is followed by a case in a parallel distributed simulator using deep learning for its configuration Chapter Three presents a case for autonomous vehicles Chapter Four discusses the novel use of genetic algorithms with support vector machines Chapters Five through Thirteen focus on the applications The book discusses how the use of AI can allow for productivity development and other benefits not just for businesses but also for economies Finally you can find an interesting investigation of the transhuman dimension of AI

Soft Computing: State of the Art Theory and Novel Applications Ronald R Yager, Ali M. Abbasov, Marek Z. Reformat, Shahnaz N Shahbazova, 2012-10-31 This book is a tribute to Lotfi A Zadeh the father of fuzzy logic on the occasion of his 90th Birthday The book gathers original scientific contributions written by top scientists and presenting the latest theories applications and new trends in the fascinating and challenging field of soft computing

**Computational Intelligence for Knowledge-Based System Design** Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-30 The book constitutes the refereed proceedings of the 13th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2010 held in Dortmund Germany from June 28 July 2 2010 The 77 revised full papers were carefully reviewed and selected from 320 submissions and reflect the richness of research in the field of Computational Intelligence and represent developments on topics as machine learning data mining pattern recognition uncertainty handling aggregation and fusion of information as well as logic and knowledge processing

**Knowledge-Based Intelligent Information and Engineering Systems** Bogdan Gabrys, 2006-10-11 The three volume set LNAI 4251 LNAI 4252 and LNAI 4253 constitutes the refereed proceedings of the 10th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2006 held in Bournemouth UK in October 2006 The 480 revised papers presented were carefully reviewed and selected from about 1400 submissions The papers present a

wealth of original research results from the field of intelligent information processing      **Recent Advances in Decision Making** Elisabeth Rakus-Andersson, Ronald R. Yager, Nikhil Ichalkaranje, 2009-08-05 Intelligent paradigms are increasingly finding their ways in the design and development of decision support systems This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems in decision making A new method of ranking intuitionistic fuzzy alternatives Fuzzy rule base model identification by bacterial memetic algorithms Discovering associations with uncertainty from large databases Dempster Shafer structures monotonic set measures and decision making Interpretable decision making models A general methodology for managerial decision making Supporting decision making via verbalization of data analysis results using linguistic data summaries Computational intelligence in medical decisions making This book is directed to the researchers graduate students professors decision makers and to those who are interested to investigate intelligent paradigms in decision making



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