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Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications

Recent Advances In Intelligent Paradigms And Applications

Ivan Jordanov, Lakhmi C Jain



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 Paradigms and Applications Ajith Abraham, 2014-09-01 **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 Systems and Smart Applications Mostafa Al-Emran, Khaled Shaalan, Aboul Ella Hassanien, 2020-06-26 This book explores the latest research trends in intelligent systems and smart applications It presents high quality empirical and review studies focusing on various topics including information systems and software engineering knowledge management technology in education emerging technologies and social networks It provides insights into the theoretical and practical aspects of intelligent systems and smart applications *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 **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 **Artificial Intelligence and Soft Computing, Part I** Leszek

Rutkowski,Rafał Scherer,Ryszard Tadeusiewicz,Lotfi A. Zadeh,Jacek M. Zurada,2010-06-20 This volume constitutes the proceedings of the 10th International Conference on Artificial Intelligence and Soft Computing ICAISC 2010 held in Zakopane Poland in June 13 17 2010 The articles are organized in topical sections on Fuzzy Systems and Their Applications Data Mining Classification and Forecasting Image and Speech Analysis Bioinformatics and Medical Applications Volume 6113 together with Neural Networks and Their Applications Evolutionary Algorithms and Their Applications Agent System Robotics and Control Various Problems of Artificial Intelligence Volume 6114 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 **Recent**

Advances in Blockchain Technology Sandeep Kumar Panda,Vaibhav Mishra,Sujata Priyambada Dash,Ashis Kumar Pani,2023-02-11 This book provides insights on blockchain technology and its applications in real world business supply chain health care education HRM retail logistics and transport industries This book grants a comprehensive understanding of how this technology is functioning within modern real world applications and how it can influence the future of the real world

applications in industry The chapters cover the case study applications of blockchain benefits and challenges disruptive innovations in real world applications privacy and security concerns and the recent trends of blockchain in real world applications It is ideally intended for marketers advertisers brand managers executives managers IT specialists and consultants researchers businesses practitioners stakeholders academicians and students interested in blockchain technology and its role in supply chain health care education HRM retail logistics and transport industries 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 Artificial Intelligence and Soft Computing – ICAISC 2008 Leszek Rutkowski, Ryszard Tadeusiewicz, Lofti A. Zadeh, Jacek M. Zurada, 2008-06-19 This book constitutes the refereed proceedings of the 9th International Conference on Artificial Intelligence and Soft Computing ICAISC 2008 held in Zakopane Poland in June 2008 The 116 revised contributed papers presented were carefully reviewed and selected from 320 submissions The papers are organized in topical sections on neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications classification rule discovery and clustering image analysis speech and robotics bioinformatics and medical applications various problems of artificial intelligence and agent systems Recent Advances in Decision Making Elisabeth Rakus-Andersson, Ronald R. Yager, Nikhil Ichalkaranje, 2009-08-04 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 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 Intelligent Data Analysis: Developing New Methodologies Through Pattern Discovery and Recovery Wang, Hsiao-Fan, 2008-07-31 Pattern Recognition has a long history of applications to data analysis in business military and social economic activities While the aim of pattern recognition is to discover the pattern of a data set the size of the data set is closely related to the methodology one adopts for analysis Intelligent Data Analysis Developing New Methodologies Through Pattern Discovery and Recovery tackles those data sets and covers a variety of issues in relation to intelligent data analysis so that patterns from frequent or rare events in spatial or temporal spaces can be revealed This book brings together current research results problems and applications from both theoretical and practical approaches

Intelligent Systems Crina Grosan, Ajith Abraham, 2011-07-29 Computational intelligence is a well established paradigm where new theories with a sound biological understanding have been evolving The current experimental systems have many of the characteristics of biological computers brains in other words and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers As evident the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning recognition creativity emotions understanding learning and so on This book comprising of 17 chapters offers a step by step introduction in a chronological order to the various modern computational intelligence tools used in practical problem solving Starting with different search techniques including informed and uninformed search heuristic search minmax alpha beta pruning methods evolutionary algorithms and swarm intelligent techniques the authors illustrate the design of knowledge based systems and advanced expert systems which incorporate uncertainty and fuzziness Machine learning algorithms including decision trees and artificial neural networks are presented and finally the fundamentals of hybrid intelligent systems are also depicted Academics scientists as well as engineers engaged in research development and application of computational intelligence techniques machine learning and data mining would find the comprehensive coverage of this book invaluable *Computational Intelligence Techniques for Bioprocess Modelling, Supervision and Control* Maria Carmo Nicoletti, 2009-07-09 Computational Intelligence CI and Bioprocess are well established research areas which have much to offer each other Under the perspective of the CI area Bioprocess can be considered a vast application area with a growing number of complex and challenging tasks to be dealt with whose solutions can contribute to boosting the development of new intelligent techniques as well as to help the refinement and specialization of many of the already existing techniques Under the perspective of the Bioprocess area CI can be considered a useful repertoire of theories methods and techniques that can contribute and offer interesting alternative approaches for solving many of its problems particularly those hard to solve using conventional techniques Although throughout the past years CI and Bioprocess areas have accumulated substantial specific knowledge and progress has been quick and with a high degree of success we believe there is still a long way to go in order to use the potentialities of the available CI techniques and knowledge at their full extent as tools for supporting problem solving in bioprocesses One of the

reasons is the fact that both areas have progressed steadily and have been continuously accumulating and refining specific knowledge another reason is the high level of technical expertise demanded by each of them The acquisition of technical skills experience and good insights in either of the two areas is very demanding and a hard task to be accomplished by any professional *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

Software Engineering with Computational Intelligence Jonathan Lee,2013-11-11 It is not an exaggeration to view Professor Lee s book *Software Engineering with Computational Intelligence* or SECI for short as a pioneering contribution to software engineering Breaking with the tradition of treating uncertainty imprecision fuzziness and vagueness as issues of peripheral importance SECI moves them much closer to the center of the stage It is obvious though still not widely accepted that this is where these issues should be since the real world is much too complex and much too ill defined to lend itself to categorical analysis in the Cartesian spirit As its title suggests SECI employs the machineries of computational intelligence CI and more or less equivalently soft computing SC to deal with the foundations and principal issues in software engineering Basically CI and SC are consortia of methodologies which collectively provide a body of concepts and techniques for conception design construction and utilization of intelligent systems The principal constituents of CI and SC are fuzzy logic neurocomputing evolutionary computing probabilistic computing chaotic computing and machine learning The leitmotif of CI and SC is that in general better performance can be achieved by employing the constituent methodologies of CI and SC in combination rather than in a stand alone mode In what follows I will take the liberty of focusing my attention on fuzzy logic and fuzzy set theory and on their roles in software engineering But first a couple of points of semantics which are in need of clarification *Evolution of the Web in Artificial Intelligence Environments* Richi Nayak,N. Ichalkaranje,2008-05-30 The Web has revolutionized the way we seek information on all aspects of education entertainment business health and so on The Web has evolved into a publishing medium global electronic market and increasingly a platform for conducting electronic commerce A part of this success can be attributed to the tremendous advances made in the Artificial Intelligence field The popularity of the Web has opened many opportunities to develop smart Web based systems using artificial intelligence techniques There exist numerous Web technology and applications that can benefit with the application of artificial intelligence techniques It is not possible to cover them all in one book with a required degree of quality depth and width We

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