

Guest Editorial

Recent advances in intelligent paradigms fusion and their applications

Lakshmi C. Jain^a, Chee Peng Lim^b and Ngoc Thanh Nguyen^c

^aUniversity of South Australia, Australia

E-mail: Lakshmi.Jain@unisa.edu.au

^bUniversity of Science Malaysia, Malaysia

^cWroclaw University of Technology, Poland

Over the past decades, computerized intelligent paradigms have attracted much attention from researchers. Advances in intelligent techniques and approaches, which include neural networks, knowledge-based systems, fuzzy logic, evolutionary algorithms, agent-based techniques, case based reasoning etc. have resulted in many successful applications of these innovative systems. Indeed, applicability of intelligent paradigms to many diverse domains have been demonstrated, which include pattern recognition, image and signal processing, control and automation, robotics, data mining, Biomedicine, knowledge management, finance and banking.

Instead of employing a single intelligent paradigm, one recent trend of research and development is on the fusion of different intelligent paradigms to tackle complex problems. The combination of more than one intelligent techniques can be realized in many forms, either by a modular cooperation of two (or more) intelligent techniques, each with its own identity; or by fusing one technique into another to form an integrated system. The main rationale behind intelligent paradigms fusion is to exploit the advantages of each intelligent technique and, at the same time, to avoid its limitations, for solving a particular problem.

In this special issue, a number of articles which address the usefulness of different intelligent paradigms and their fusions are presented. The intelligent paradigms investigated include fuzzy models, evolution-

ary algorithms, multi-agent systems, neural networks, particle swarm optimization techniques, and artificial immune systems. Applications of these systems are demonstrated in various fields, ranging from real estate appraisal, e-learning, sensor networks, to biomedical data analysis. A summary of the articles covered in this special issue is as follows.

Fuzzy models have emerged as an effective tool for intelligent data analysis, where the data can be both quantitative and qualitative. In Król et al., the Takagi-Sugeno-Kang (TSK) fuzzy model is optimized using evolutionary algorithms. The resulting model is applied to real estate appraisals. Two approaches are examined. The first focuses on learning the rule base while the second deals with learning the rule base and tuning the membership functions simultaneously. The evolutionary algorithms are based on the Pittsburgh approach with real-valued chromosomes comprising the whole rule base or both the rule base and parameters of the membership functions. Applicability of the system is evaluated using a total of 150 real sales transactions made in one of Polish cities.

Development in innovative computer technologies has offered many promises in the field of education, especially in distance learning. However, a crucial issue in educational technology is the provision of instructional environments and conditions that comply with different educational goals and learning abilities. In Serçe et al., an Adaptive Intelligent Learning Sys-

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RJ Shavelson



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

Recent Advances in

Intelligent Paradigms and Applications Ajith Abraham,2002-11-26 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,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

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Advances in Knowledge-based Paradigms and Applications Jeffrey W. Tweedale, Lakhmi C. Jain, 2013-10-30 This book presents carefully selected contributions devoted to the modern perspective of AI research and innovation This collection covers several areas of applications and motivates new research directions The theme across all chapters combines several domains of AI research Computational Intelligence and Machine Intelligence including an introduction to the recent research and models Each of the subsequent chapters reveals leading edge research and innovative solution that employ AI techniques with an applied perspective The problems include classification of spatial images early smoke detection in outdoor space from video images emergent segmentation from image analysis intensity modification in images multi agent modeling and analysis of stress They all are novel pieces of work and demonstrate how AI research contributes to solutions for difficult real world problems that benefit the research community industry and society

Innovations in Intelligent Machines -2 Toyohide Watanabe, Lakhmi C Jain, 2011-10-26 This research volume is a continuation of our previous volume on intelligent machines We have laid the foundation of intelligent machines in Springer SCI Series Volume 70 by including the possible and successful applications of computational intelligence paradigms in machines for mimicking the human behaviour The present volume includes the recent advances in intelligent paradigms and innovative applications such as document processing language translation English academic writing crawling system for web pages web page retrieval technique aggregate k Nearest Neighbour for answering queries context aware guide recommendation system for museum meta learning environment case based reasoning approach for adaptive modelling in exploratory learning discussion support system for understanding research papers system for recommending e Learning courses community site for supporting multiple motor skill development community size estimation of internet forum lightweight reprogramming for wireless sensor networks adaptive traffic signal controller and virtual disaster simulation system This book is directed to engineers scientists researchers professor and the undergraduate postgraduate students who wish to explore the applications of intelligent paradigms further

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

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. 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 to 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.

Recent Advances in Ambient Intelligence and Context-Aware Computing, Curran, Kevin, 2014-11-30. Modern devices, from phones and cars to houses and the appliances within them, are being designed with formidable computational power and expanded functionality. To be truly effective, these smart devices must effectively process data from their environment and experiences and make decisions based on that information. *Recent Advances in Ambient Intelligence and Context-Aware Computing* investigates the functionality of ubiquitous computational systems and how they may adapt to their environment to improve the quality of interaction for the end user. This reference book will be of value to undergraduate and postgraduate students, professionals, and researchers in networking, computer science, communications, and other information technology disciplines.

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 the 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 *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 **Advances in Intelligent Systems** Masoud Mohammadian, 2000 Recent Developments of Fuzzy Matrix Theory and Applications Madhumangal Pal, 2024-05-27 This book provides a comprehensive overview of the development of fuzzy matrix theory from its inception to its current state It covers various types of fuzzy matrices such as intuitionistic fuzzy matrices interval valued fuzzy matrices interval valued intuitionistic fuzzy matrices bipolar fuzzy matrices picture fuzzy matrices neutrosophic fuzzy matrices m polar fuzzy matrices and similar one Drawing primarily from the author s research work and collaborations the book offers a state of the art discussion of these topics Theoretical concepts are illustrated with examples for clarity accompanied by figures depicting fuzzy matrices and their variations Suitable for both beginners and expert researchers the book offers a wealth of material and includes numerous open problems at the end of almost all chapters to encourage further exploration and investigation Proceedings of the ... IEEE International Conference on Fuzzy Systems, 2004 **Advances in Intelligent Systems** Manisha Guduri, Uma Maheswari V, Rajanikanth Aluvalu, Amit Krishna Dwivedi, Martin Margala, 2025-09-12 This new volume covers a diverse range of advances in intelligent systems that involve applications of AI and digital automation such as machine learning deep learning sectional convolutional neural network models and much more It explores advances in predictive analysis such as using AI for leukemia detection and other diseases strategic decision making models using data analytics video object detection using convolution CNN based mask detection medical image watermarking using RDWT SVD DCT and more **Artificial Intelligence**, 2021-09-01 Artificial Intelligence AI is widely known as a knowledge field that aims to make computers robots or products that mimic the way humans think In the current scientific community AI is an intensively studied area composed of multiple branches Historically machine learning and optimization are two of the most studied fronts thanks to the development of novel and challenging research topics such as transfer optimization swarm robotics and drift detection and adaptation to evolving conditions in real time This book collects radically new theoretical insights reporting recent developments and evincing innovative applications regarding AI methods in all fields of knowledge

It also presents works focused on new paradigms and novel branches of AI science **Proceedings** ,2005 American Book Publishing Record ,2003 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 **Innovations in Neural Information Paradigms and Applications** Monica Bianchini,Marco Maggini,Franco Scarselli,2009-10-16 Tremendous advances in all disciplines including engineering science health care business avionics management and so on can also be attributed to the development of artificial intelligence paradigms In fact researchers are always interested in designing machines which can mimic the human behaviour in a limited way Therefore the study of neural information processing paradigms have generated great interest among researchers in that machine learning borrowing features from human intelligence and applying them as algorithms in a computer friendly way involves not only Mathematics and Computer Science but also Biology Psychology Cognition and Philosophy among many other disciplines Generally speaking computers are fundamentally well suited for performing automatic computations based on fixed programmed rules i.e in facing efficiently and reliably monotonous tasks often extremely time consuming from a human point of view Nevertheless unlike humans computers have troubles in understanding specific situations and adapting to new working environments Artificial intelligence and in particular machine learning techniques aim at improving computers behaviour in tackling such complex tasks On the other hand humans have an interesting approach to problem solving based on abstract thought high level deliberative reasoning and pattern recognition Artificial intelligence can help us understanding this process by recreating it then potentially enabling us to enhance it beyond our current capabilities

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