

## Guest Editorial

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# Recent advances in intelligent paradigms fusion and their applications

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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-

# Recent Advances In Intelligent Paradigms And Applications

**Shasha Hu**



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

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

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      Recent 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

*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 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

Advanced Intelligent Paradigms in Computer Games Norio Baba, Hisashi Handa, 2007-06-26 The evolution of technologies has greatly changed the basic structure of our industry and nature of our daily lives Industries which did not exist several decades ago have made remarkable progress in recent years and our lives have flourished One of the most typical examples is the computer game industry This book presents a sample of the most recent research concerning the application of computational intelligence techniques and internet technology in computer games This book contains eight chapters The first chapter by N Baba and H Handa is on utilization of evolutionary algorithms to increase excitement of the COMMONS GAME It is shown that the original COMMONS GAME which is one of the most popular environmental games has been made much more exciting by the intelligent utilization of the two evolutionary algorithms The second chapter by H Barber and D Kudenko is on adaptive generation of dilemma based interactive narratives In this chapter they present an interactive narrative generator that can create story lines that incorporate dilemmas to add dramatic tension They also briefly touch upon the possibility that their

work could provide a useful tool for making dramatically interesting game playing possible The third chapter by J Tongelius S M Lucas and R D Nardi is on computational intelligence CI in racing games The authors suggest that CI techniques can be used for various purposes such as controller evolution for the racing and track evolution for a pro cient player

**Computational Intelligence for Knowledge-Based System Design** Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-17 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

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 Advanced

Intelligent Paradigms in Computer Games Norio Baba, Hisashi Handa, 2009-09-02 This book explores all the latest research in the area of advanced intelligent paradigms in computer games It presents a sample of the most recent research concerning the application of computational intelligence techniques and internet technology in computer games The contents include COMMONS GAME in intelligent environment adaptive generation of dilemma based interactive narratives computational intelligence in racing games evolutionary algorithms for board game players with domain knowledge electronic market games EVE s entropy and capturing player enjoyment in computer games **Advanced Intelligent Computing. Theories and Applications**

De-Shuang Huang, Martin McGinnity, Laurent Heutte, Xiao-Ping Zhang, 2010-08-14 The International Conference on Intelligent Computing ICIC was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intel gence machine learning pattern recognition image processing bioinformatics and computational biology It aims to bring together researchers and practitioners from both academia and industry to share ideas problems and solutions related to the m tifaceted aspects of intelligent computing ICIC 2010 held in Changsha China August 18 21 2010 constituted the 6th ternational Conference on Intelligent Computing It built upon the success of ICIC 2009 ICIC 2008 ICIC

2007 ICIC 2006 and ICIC 2005 that were held in Ulsan Korea Shanghai Qingdao Kunming and Hefei China respectively This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Advanced Intelligent Computing Technology and Applications Papers focusing on this theme were solicited addressing theories methodologies and applications in science and technology

**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

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

*Proceedings* ,2005

**Recent Advances in Technology Acceptance Models and Theories** Mostafa Al-Emran,Khaled Shaalan,2021-03-15 This book tackles the latest research trends in technology acceptance models and theories It presents high quality empirical and review studies focusing on the main theoretical models and their applications across various technologies and contexts It also provides insights into the theoretical and practical aspects of different technological innovations that assist decision makers in formulating the required policies and procedures for adopting a specific technology

**Machine Learning Paradigms** George A. Tsihrintzis,Maria Virvou,Evangelos Sakkopoulos,Lakhmi C. Jain,2019-07-06 This book is the inaugural volume in the new Springer series on Learning and Analytics in Intelligent Systems The series aims at providing in hard copy and soft copy form books on all aspects of learning analytics advanced intelligent systems and related technologies These disciplines are

strongly related and mutually complementary accordingly the new series encourages an integrated approach to themes and topics in these disciplines which will result in significant cross fertilization research advances and new knowledge creation To maximize the dissemination of research findings the series will publish edited books monographs handbooks textbooks and conference proceedings This book is intended for professors researchers scientists engineers and students An extensive list of references at the end of each chapter allows readers to probe further into those application areas that interest them most

**Information Security and Ethics** Hamid R. Nemati,2008 This compilation serves as the ultimate source on all theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices to meet these challenges Provided by publisher **American Book Publishing Record** ,2003

**Advances in Intelligent Systems** Manisha Guduri,Uma Maheswari V,Rajanikanth Aluvalu,Amit Krishna Dwivedi,2025 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 Divided into three sections the volume first covers advances in predictive analysis such as using AI for leukemia detection and classification an Xception model for the prediction of monkeypox disease sectional convolutional neural network S CNN model for automated covid detection strategic decision making models using data analytics in educational institutions and more Several chapters in the section on computer vision consider video object detection using convolution CNN based mask detection and other vision detection technologies The section on electronic circuits and assistive technologies looks at medical image watermarking using RDWT SVD DCT for secure medical data transmission in healthcare systems such as for bone fracture identification and heart attack prediction an eco friendly battery powered autonomous tongue controlled wheelchair etc This volume will provide food for thought for professionals and researchers working in intelligent systems

## Embracing the Track of Phrase: An Psychological Symphony within **Recent Advances In Intelligent Paradigms And Applications**

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