

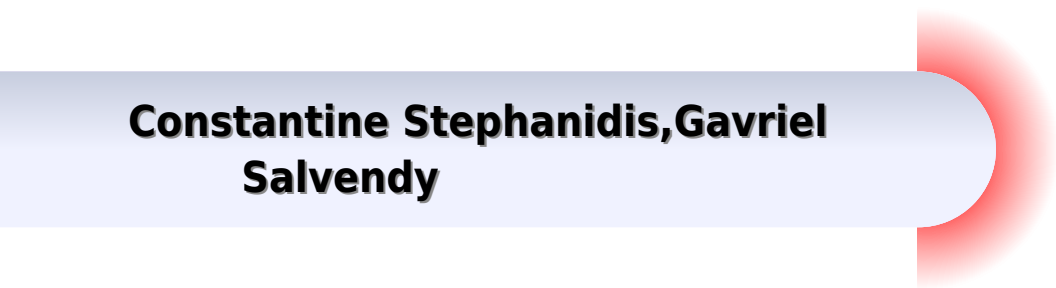


Advances in Cognitive Systems

Edited by
S. Nefti and J.O. Gray

Advances In Cognitive Systems Iet Control Engineering Series

Constantine Stephanidis, Gavriel Salvendy



Advances In Cognitive Systems Iet Control Engineering Series:

Advances in Cognitive Systems Samia Nefti-Meziani, J. O. Gray, 2010-06-10 Advances in Cognitive Systems brings together a wide range of material from leading workers in the field as well as the outputs from research groups around the world covering the two principal cognition paradigms of cognitivism and emergence

Corporate Finance Stefan Cristian Gherghina, 2021-05-18 This book comprises 19 papers published in the Special Issue entitled Corporate Finance focused on capital structure Kedzior et al 2020 Ntoun et al 2020 Vintil et al 2019 dividend policy Dragot and Delcea 2019 Pinto and Rastogi 2019 and open market share repurchase announcements Ding et al 2020 risk management Chen et al 2020 Nguyen Thanh 2019 tefko et al 2020 financial reporting Fossung et al 2020 corporate brand and innovation Barros et al 2020 B ach et al 2020 and corporate governance Aluchna and Kuszewski 2020 Dragot et al 2020 Gruszczy ski 2020 Kj rland et al 2020 Koji et al 2020 Lukason and Camacho Mi ano 2020 Rashid Khan et al 2020 It covers a broad range of companies worldwide Cameroon China Estonia India Japan Norway Poland Romania Slovakia Spain United States Vietnam as well as various industries heat supply high tech manufacturing

Advances in Cognitive Science and Communications Amit Kumar, Stefan Mozar, Jan Haase, 2023-03-09 This book includes selected peer reviewed articles from The 5th International Conference on Communications and Cyber Physical Engineering ICCCE 2022 held on 29th and 30th April 2022 in Hyderabad India Articles presented here relate to next generation cognitive systems neuroscience cyber physical systems and their impact on communication technologies The book includes content related to cognitive disorders computational intelligence fuzzy logics evolutionary computing that are important for deriving a roadmap for future research on cognitive science systems and communications ICCCE is one of the most prestigious conferences conceptualized in the transdisciplinary field of cognitive science and communication technology areas like methods of linguistics computer science philosophy and neuroscience This edition of the conference was attended by several Industry professionals and academicians and Government agencies to cover a broad range of perspectives practices and technical expertise related to cognitive technologies and next generation communications Articles presented cover innovations from industry outcome of implementations and cutting edge research outcomes from cognitive science technology areas and their impact on communication technology and cyber physical engineering

Innovations and Advances in Cognitive Systems S. D. Prabu Ragavendiran, Vasile Daniel Pavaloaia, M. S. Mekala, Antonio Sarasa Cabezuelo, 2024-09-25 This book covers the new research convergence exploring how AI is transforming computer networks and cognitive technologies As AI research explodes the lines between technology and human potential are blurring With a collection of 38 research chapters this book is a collection of research efforts that explore the cutting edge topics like intelligent robots intelligent and automated network security brain computer interfaces and advanced language processing Overall this book provides an overview of how AI is optimizing and analyzing massive datasets for obtaining hidden insights The research methods and future research scope discussed in

each chapter will serve as a key to understand the transformative power of AI and cognitive technologies. The knowledge shared in this book will equip young research minds to harness the potential of computing and cognitive technologies and shape a brighter future. *Cognitive Informatics, Computer Modelling, and Cognitive Science* G. R. Sinha, Jasjit Suri, 2020-04-08. Cognitive Informatics Computer Modelling and Cognitive Science Volume Two Application to Neural Engineering Robotics and STEM presents the practical real world applications of Cognitive Science to help readers understand how it can help them in their research engineering and academic pursuits. The book is presented in two volumes covering Introduction and Theoretical Background Philosophical and Psychological Theory and Cognitive Informatics and Computing. Volume Two includes Statistics for Cognitive Science Cognitive Applications and STEM Case Studies. Other sections cover Cognitive Informatics Computer Modeling and Cognitive Science Application to Neural Engineering Robotics and STEM. The book's authors discuss the current status of research in the field of Cognitive Science including cognitive language processing that paves the ways for developing numerous tools for helping physically challenged persons and more.

Advances in the Internet of Things Qusay Hassan, 2025-07-17. Many reports estimated that in 2024 the number of Internet of Things IoT devices exceeded 18 billion worldwide with predictions suggesting that it could reach nearly 40 billion by 2033. Despite primarily being consumer devices a growing number of them will find use in industrial and enterprise applications. This shows the significance of IoT and how it shapes the future. However to realize its full potential we must address its emerging challenges and highlight recent applications advances and trends which is the focus of this book. Security and privacy represent some of the key challenges IoT adopters face. The severity of these issues is exacerbated by the growing number of IoT devices the expansion of Industry 4.0 and the emergence of Industry 5.0 and the significant increase in cybersecurity attacks. Considering that ensuring security and privacy is crucial for the successful adoption of IoT this book dedicates several chapters to these areas. This book also introduces some novel models that improve IoT environments and presents several practical implementations that utilize IoT to demonstrate some of its real world applications. Furthermore it examines several emerging technologies that enable the realization of advanced IoT environments. We see most IoT advances in three main areas the integration of artificial intelligence machine learning network technologies and hardware design. Therefore this book dedicates several chapters to these areas. Most chapters touch on artificial intelligence machine learning emphasizing the significance of these technologies in today's and next generation applications. The main objective of this book is to capture the state of the art in IoT and explore some of its emerging challenges solutions and technologies. This peer reviewed book serves as a reference for researchers academics practitioners and graduate level students. Developments in Cognitive Radio Networks Bodhaswar TJ Maharaj, Babatunde Seun Awoyemi, 2021-07-14. This book provides holistic yet concise information on what modern cognitive radio networks are how they work and the possible future directions for them. The authors first present the most generic models of modern cognitive radio networks taking into consideration their

different architectural designs and classifications While the spectrum resource is shown to be the most important resource for the cognitive radio networks the book exposes the importance of the other resources that are needed to help drive the technology The book then discusses in depth the key tools such as optimization and queuing theory and techniques such as cooperative diversity and relaying that are being employed to formulate resource problems investigate solutions and interpret such solutions for useful and practical modern cognitive radio networks realization Further the book studies the impact of modern cognitive radio networks on other emerging technologies such as 5G Internet of Things and advanced wireless sensor networks and discusses the role that cognitive radio networks play in the evolution of smart cities and in the realization of a highly interconnected world In discussing the future of the cognitive radio networks the book emphasizes the need to advance new or improved tools techniques and solutions to address lingering problems in the aspects of resource realization and utilization network complexity network security etc which can potentially limit the cognitive radio networks in their stride to becoming one of the most promising technologies for the immediate and near future **System**

Identification and Adaptive Control Yiannis Boutalis,Dimitrios Theodoridis,Theodore Kottas,Manolis A.

Christodoulou,2014-04-23 Presenting current trends in the development and applications of intelligent systems in engineering this monograph focuses on recent research results in system identification and control The recurrent neurofuzzy and the fuzzy cognitive network FCN models are presented Both models are suitable for partially known or unknown complex time varying systems Neurofuzzy Adaptive Control contains rigorous proofs of its statements which result in concrete conclusions for the selection of the design parameters of the algorithms presented The neurofuzzy model combines concepts from fuzzy systems and recurrent high order neural networks to produce powerful system approximations that are used for adaptive control The FCN model stems from fuzzy cognitive maps and uses the notion of concepts and their causal relationships to capture the behavior of complex systems The book shows how with the benefit of proper training algorithms these models are potent system emulators suitable for use in engineering systems All chapters are supported by illustrative simulation experiments while separate chapters are devoted to the potential industrial applications of each model including projects in contemporary power generation process control and conventional benchmarking problems Researchers and graduate students working in adaptive estimation and intelligent control will find Neurofuzzy Adaptive Control of interest both for the currency of its models and because it demonstrates their relevance for real systems The monograph also shows industrial engineers how to test intelligent adaptive control easily using proven theoretical results **Engineering**

Psychology and Cognitive Ergonomics. Applications and Services Don Harris,2013-07-01 This two volume set LNAI 8019 and LNAI 8020 constitutes the refereed proceedings of the 10th International Conference on Engineering Psychology and Cognitive Ergonomics EPCE 2013 held as part of the 15th International Conference on Human Computer Interaction HCII 2013 held in Las Vegas USA in July 2013 jointly with 12 other thematically similar conferences The total of 1666 papers

and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 81 contributions included in the EPCE proceedings were carefully reviewed and selected for inclusion in this two volume set. The papers included in this volume are organized in the following topical sections: driving and transportation safety; cognitive issues in aviation; military applications; cognitive issues in health and well being.

Agents for Games and Simulations II F. Dignum, 2011-01-14. While today's game engines and multi agent platforms cross fertilize each other to some extent, the technologies used in these areas are not readily compatible due to some differences in their primary concerns. Where game engines prioritize efficiency and central control, multi agent platforms focus on agent autonomy and sophisticated communication capabilities. This volume gives an overview of the current state of the art for people wishing to combine agent technology with serious games. This state of the art survey contains a collection of papers presented at AGS 2010, the Second International Workshop on Agents for Games and Simulations held on May 10, 2010 in Toronto, as well as extended versions of papers from other workshops and from the AAMAS conference. The 14 papers are organized in three topical sections focusing on architectures combining agents and game engines; on the training aspects of the games; on social and organizational aspects of games and agents respectively.

Research Handbook on Meaningful Human Control of Artificial Intelligence Systems Giulio Mecacci, Daniele Amoroso, Luciano Cavalcante Siebert, David Abbink, Jeroen van den Hoven, Filippo Santoni de Sio, 2024-07-05. This prescient Research Handbook analyses the ethical development of Artificial Intelligence systems through the prism of meaningful human control. It encapsulates a multitude of disciplinary lenses including technical, philosophical and legal, making a crucial contribution to the ongoing discourse about control and responsibility in the field of AI.

Advances in Interdisciplinary Engineering Mukul Kumar, R. K. Pandey, Vikas Kumar, 2019-05-31. This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering FLAME 2018. The book discusses interdisciplinary areas such as automobile engineering, mechatronics, applied and structural mechanics, bio mechanics, biomedical instrumentation, ergonomics, biodynamic modeling, nuclear engineering, agriculture engineering and farm machineries. The contents of the book will benefit both researchers and professionals.

Grey Systems Analysis Sifeng Liu, Yingjie Yang, Jeffrey Yi-Lin Forrest, 2022-12-08. The book covers up to date theoretical and applied advances in grey systems theory from across the world and vividly presents the reader with the overall picture of this new theory and its frontier research. Many of the concepts, models and methods in the book are original by the authors, including simplified form of grey number, general grey number and the operations of grey numbers, the axiomatic system of buffer operators and a series of weakening and strengthening operators, a series of grey relational

analysis models including grey absolute relative synthetic similarity closeness negative and three dimension degree etc grey fixed weight clustering model grey evaluation models based on center point and end point mixed possibility functions original difference grey model ODGM even difference grey model EDGM discrete grey model DGM fractional grey models self memory grey models multi attribute intelligent grey target decision models weight vector group with kernel and the weighted comprehensive clustering coefficient vector and spectrum analysis of sequence operators etc This book will be appropriate as a reference and or professional book for courses of grey system theory for graduate students or high level undergraduate students majoring in areas of science technology agriculture medicine astronomy earth science economics and management It can also be utilized by researchers and practitioners in research institutions business entities and government agencies

Issues in Electronics Research and Application: 2013 Edition ,2013-05-01 Issues in Electronics Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Radar and Sonar Research The editors have built Issues in Electronics Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Radar and Sonar Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Electronics Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com)

Advanced Robotics & Intelligent Machines J. O. Gray,Darwin G. Caldwell,1996 Advanced robotics describes the use of sensor based robotic devices which exploit powerful computers to achieve the high levels of functionality that begin to mimic intelligent human behaviour The object of this book is to summarise developments in the base technologies survey recent applications and highlight new advanced concepts which will influence future progress

Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies Zhao, Jingyuan,Kumar, V. Vinoth,2021-06-25 Recently artificial intelligence AI the internet of things IoT and cognitive technologies have successfully been applied to various research domains including computer vision natural language processing voice recognition and more In addition AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications On the other hand network design and optimization for AI applications addresses a complementary topic namely the support of AI based systems through novel networking techniques including new architectures as well as performance models for IoT systems IoT has paved the way to a plethora of new application domains at the same time posing several challenges as a multitude of devices protocols communication channels architectures and middleware exist Big data generated by these devices calls for advanced learning and data mining techniques to effectively

understand learn and reason with this volume of information such as cognitive technologies Cognitive technologies play a major role in developing successful cognitive systems which mimic cognitive functions associated with human intelligence such as learning and problem solving Thus there is a continuing demand for recent research in these two linked fields The Handbook of Research on Innovations and Applications of AI IoT and Cognitive Technologies discusses the latest innovations and applications of AI IoT and cognitive based smart systems The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation public policies technologies and intellectual capital innovation systems competition and strategies marketing and growth capability and governance and relegation models These applications span areas such as healthcare security and privacy industrial systems multidisciplinary sciences and more This book is ideal for technologists IT specialists policymakers government officials academics students and practitioners interested in the experiences of innovations and applications of AI IoT and cognitive technologies

Free Space Optical Communication A. Arockia Basil Raj, 2015-12-18 Recent progress in ICT has exceeded our expectations for meeting the requirement of multimedia society in the 21st century The FSOC is considered to be one of the key technologies for realizing very high speed multi Gbps large capacity terrestrial and aerospace communications In FSOC the optical beam propagation in the turbulent atmosphere is severely affected by various factors suspended in the channel Wavefront aberration correcting with continuous beam alignment are the key requirements for a successful installation of an FSOC system which are the main contributions in our book Establishment of FSOC setups development of accurate weather station measurement of atmospheric attenuation Att and turbulence strength Cn2 development of new models to predict the Att and Cn2 design of Response Surface Model and Artificial Neural Network based on controller implementation of neural controller in FPGA and attaining the BER of 6.4×10^{-9} during different outdoor environments All the original contributions newness findings and experimental results etc are reported in the book Subject of work Wireless Optical Communication The content of the book can be referred by various application designers and or academicians for working on FSOC transceiver design laser cutting laser metrology laser surgery beam focusing pointing beacon positioning and coupling etc Further all necessary MATLAB and VHDL codes are also given on appropriate pages for the readers quick clear understanding

Innovations in Intelligent Machines -2 Toyohide Watanabe, Lakhmi C. Jain, 2011-10-19 Continuing where the last volume left off this publication covers cutting edge research into intelligent machines including innovative applications such as document processing language translation and lightweight reprogramming for wireless sensor networks

Human-Computer Interaction Constantine Stephanidis, Gavriel Salvendy, 2024-09-28 The pervasive influence of technology continuously shapes our daily lives From smartphones to smart homes technology is revolutionizing the way we live work and interact with each other Human computer interaction HCI is a multidisciplinary research field focusing on the study of people interacting with information technology and plays a critical role in the development of computing systems that work well for the people using

them ensuring the seamless integration of interactive systems into our technologically driven lifestyles The book series contains six volumes providing extensive coverage of the field wherein each one addresses different theoretical and practical aspects of the HCI discipline Readers will discover a wealth of information encompassing the foundational elements state of the art review in established and emerging domains analysis of contemporary advancements brought about by the evolution of interactive technologies and artificial intelligence as well as the emergence of diverse societal needs and application domains These books Showcase the pivotal role of HCI in designing interactive applications across a diverse array of domains Explore the dynamic relationship between humans and intelligent environments with a specific emphasis on the role of Artificial Intelligence AI and the Internet of Things IoT Provide an extensive exploration of interaction design by examining a wide range of technologies interaction techniques styles and devices Discuss user experience methods and tools for the design of user friendly products and services Bridge the gap between software engineering and human computer interaction practices for usability inclusion and sustainability These volumes are an essential read for individuals interested in human computer interaction research and applications

Innovative Computational Intelligence: A Rough Guide to 134 Clever Algorithms Bo Xing, Wen-Jing Gao, 2013-12-13 The first notable feature of this book is its innovation Computational intelligence CI a fast evolving area is currently attracting lots of researchers attention in dealing with many complex problems At present there are quite a lot competing books existing in the market Nevertheless the present book is markedly different from the existing books in that it presents new paradigms of CI that have rarely mentioned before as opposed to the traditional CI techniques or methodologies employed in other books During the past decade a number of new CI algorithms are proposed Unfortunately they spread in a number of unrelated publishing directions which may hamper the use of such published resources These provide us with motivation to analyze the existing research for categorizing and synthesizing it in a meaningful manner The mission of this book is really important since those algorithms are going to be a new revolution in computer science We hope it will stimulate the readers to make novel contributions or even start a new paradigm based on nature phenomena Although structured as a textbook the book s straightforward self contained style will also appeal to a wide audience of professionals researchers and independent learners We believe that the book will be instrumental in initiating an integrated approach to complex problems by allowing cross fertilization of design principles from different design philosophies The second feature of this book is its comprehensiveness Through an extensive literature research there are 134 innovative CI algorithms covered in this book

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