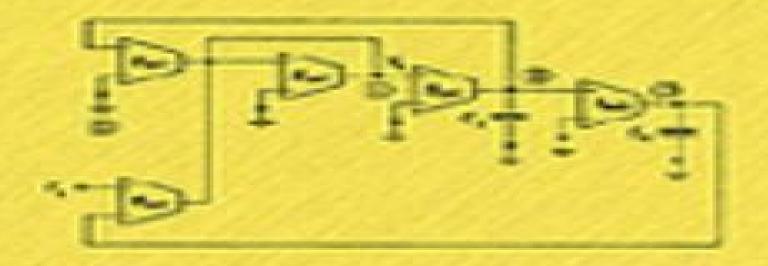# Recent Advances in Circuits and Systems

Nikos E. Mastorakis

(Editor)

Recent Advances In Circuits And Systems

Abdelfatteh Haidine

Recent Advances In Circuits And Systems:

   Recent Advances In Circuits And Systems Nikos E Mastorakis,1998-10-12 Recent Advances in Circuits and Systems brings you a balanced state of the art presentation of the latest concepts methods algorithms techniques procedures and applications of the fascinating field of Circuits and Systems Written by eminent leading international experts the contributors provide up to date aspects of topics discussed and present fresh original insights into their own experience with Circuits and Systems The main aim of this book is to present most of the new trends and recent advances of the impressive evolution in the discipline of circuits and systems Special emphasis is given in the interaction between the classic areas of systems theory feedback control circuits design electronics etc and the modern techniques of computational intelligence neural networks genetic algorithms fuzzy logic and expert systems since this fertile interaction promises to open up new horizons in circuits and systems theory This book is composed of four parts Part I is devoted to Circuits and Electronics and also includes Power Systems Part II refers to Systems Theory and Control H infinity problems feedback control non linear systems robust stability and robust control multivariable systems hybrid systems and hydraulic systems Part III presents the latest developments in the Robotics theory and applications while Part IV is devoted to Computational Intelligence in Systems Theory   **Recent Advances In Circuits And Systems** Nikos E. Mastorakis,1998   **Special Section on Recent Advances in Circuits and Systems** Takao Hinamoto,Toshimasa Watanabe,Denshi Jōhō Tsūshin Gakkai (Japan),2005   Recent Advances in Power Electronics and Drives Jitendra Kumar,Premalata Jena,2020-12-03 This book presents select proceedings of the Electric Power and Renewable Energy Conference 2020 EPREC 2020 It provides rigorous discussions case studies and recent developments in the emerging areas of power electronics especially power inverter and converter electrical drives regulated power supplies operation of FACTS HVDC etc The readers would be benefited in enhancing their knowledge and skills in these domain areas The book will be a valuable reference for beginners researchers and professionals interested in advancements in power electronics and drives   **Recent Advances in Power Systems** Om Hari Gupta,Vijay Kumar Sood,2020-10-15 This book presents select proceedings of Electric Power and Renewable Energy Conference 2020 EPREC 2020 This book provides rigorous discussions case studies and recent developments in the emerging areas of the power system especially renewable energy conversion systems distributed generations microgrid smart grid HVDC FACTS power system protection etc The readers would be benefited in terms of enhancing their knowledge and skills in the domain areas The book will be a valuable reference for beginners researchers and professionals interested in developments in the power system   **Recent Advances in Image and Video Coding** Sudhakar Radhakrishnan,2016-11-23 This book is intended to attract the attention of practitioners and researchers in academia and industry interested in challenging paradigms of image and video coding algorithms with an emphasis on recent technological developments All the chapters are well demonstrated by various researchers around the world covering the field of image and video processing This book highlights the current

research in the image and video processing area such as image fusion image segmentation and classification image compression machine vision algorithms and video compression The entire work available in the book is mainly focusing on researchers who can do quality research in the area of image and video processing and related fields Each chapter is an independent research which will definitely motivate the young researchers to ponder into These eleven chapters available in five sections will be an eye opener for all who are doing systematic research in these fields   **Induction Motors - Recent Advances, New Perspectives and Applications** Adel El-Shahat,2023-09-13 The induction motor is one of the most significant innovations in contemporary history and it officially kicked off the Second Industrial Revolution by significantly enhancing energy generation efficiency Induction motors are utilized in a wide variety of applications in the modern industrial world Motivated by the importance of recent advances new perspectives and applications of induction motors this book presents research from distinguished experts in the field It addresses recent advances in induction motors optimal solutions in field oriented control the association of converters to induction motors dynamic analysis optimized design of synergetic control fault tolerant control mathematical modeling an adaptive system scheme for a sensorless drive modeling and simulation of a system with inter turn faults sensorless speed observer for industrial drives and induction motor applications in electric vehicles This book is useful for undergraduates graduate students researchers professors and field engineers due to its combination of both theoretical coverage and real world application concepts   **Recent Advances in Sustainable Energy and Intelligent Systems** Kang Li,Tim Coombs,Jinghan He,Yuchu Tian,Qun Niu,Zhile Yang,2021-10-21 The three volume set CCIS 1467 CCIS 1468 and CCIS 1469 constitutes the thoroughly refereed proceedings of the 7th International Conference on Life System Modeling and Simulation LSMS 2021 and of the 7th International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2021 held in Hangzhou China in October 2021 The 159 revised papers presented were carefully reviewed and selected from over 430 submissions The papers of this volume are organized in topical sections on Medical Imaging and Analysis Using Intelligence Computing Biomedical signal processing imaging visualization and surgical robotics Computational method in taxonomy study and neural dynamics Intelligent medical apparatus clinical applications and intelligent design of biochips Power and Energy Systems Computational Intelligence in Utilization of Clean and Renewable Energy Resources and Intelligent Modelling Control and Supervision for Energy Saving and Pollution Reduction Intelligent Methods in Developing Electric Vehicles Engines and Equipment Intelligent Control Methods in Energy Infrastructure Development and Distributed Power Generation Systems Intelligent Modeling Simulation and Control of Power Electronics and Power Networks Intelligent Techniques for Sustainable Energy and Green Built Environment Water Treatment and Waste Management Intelligent Robot and Simulation Intelligent Data Processing Analysis and Control in Complex Systems Advanced Neural Network Theory and Algorithms Advanced Computational Methods and Applications Fuzzy Neural and Fuzzy neuro Hybrids Intelligent Modelling Monitoring and Control of Complex Nonlinear

Systems Intelligent manufacturing autonomous systems intelligent robotic systems Computational Intelligence and Applications *Recent Advances on Video Coding* Javier Del Ser Lorente,2011-07-05 This book is intended to attract the attention of practitioners and researchers from industry and academia interested in challenging paradigms of multimedia video coding with an emphasis on recent technical developments cross disciplinary tools and implementations Given its instructional purpose the book also overviews recently published video coding standards such as H 264 AVC and SVC from a simulational standpoint Novel rate control schemes and cross disciplinary tools for the optimization of diverse aspects related to video coding are also addressed in detail along with implementation architectures specially tailored for video processing and encoding The book concludes by exposing new advances in semantic video coding In summary this book serves as a technically sounding start point for early stage researchers and developers willing to join leading edge research on video coding processing and multimedia transmission *ICT for Smart Grid - Recent Advances, New Perspectives, and Applications* Abdelfatteh Haidine,2024-07-03 Information and Communication Technology ICT plays a pivotal role in enabling and managing smart grids which are modernized electrical grids that leverage digital technologies for enhanced efficiency reliability and sustainability ICT serves as the backbone of smart grids enabling efficient reliable and sustainable electricity delivery while supporting the integration of renewable energy sources and promoting active consumer participation in grid operations The current book treats different aspects of ICT in smart grids The use of renewable energy sources is the core element of a sustainable energy infrastructure Therefore different chapters focus on microgrids Furthermore the book presents use cases for the use of microgrids in special environments such as educational buildings rural areas and the housing industries The Internet of Things IoT represents the paradigm to model any intelligent or smart system In such IoT system functionalities are organized in overlaid layers therefore it is called a layered model with a hierarchical structure The bottom layer covers the nationwide dispatched energy infrastructure The upper layer can be represented through either the service layer applications or business layers The book describes and analyzes technologies and solutions for the data layer as well as the communications networking level Recent Advances in Electrical and Electronic Engineering Bibhu Prasad Swain,Uday Shanker Dixit,2023-10-02 This book presents select proceedings of the International Conference on Science Technology and Engineering ICSTE 2023 related to electrical and electronic engineering Various topics covered include neural network classification text detection from natural scene images speech processing systems Wi Fi intrusion detection machine learning wireless sensor network image retrieval automatic speech recognition device physics power transfer photovoltaics antenna for ultra wideband applications electric vehicles etc The book is useful for researchers and professionals whose work involves electrical and electronics and computer science fields **Recent Advances In Information Science And Technology** Nikos E Mastorakis,1998-10-12 Recent Advances in Information Science and Technology brings you a balanced state of the art presentation of the latest concepts methods algorithms techniques

procedures and applications of the fascinating field of Computer Science and Engineering Written by eminent leading international experts the contributors provide up to date aspects of topics discussed and present fresh original insights into their own experience with Information Science and Technology This rich anthology of papers which compose this volume contains the latest developments and reflects the experience of many eminent researchers working in different environments universities research centers and industry The book is composed of five parts Software Engineering in which new trends and recent scientific results in software engineering data structures algorithms knowledge based systems VLSI design computer languages and industrial computer applications are presented Signal Processing in which modern topics in signal processing identification recognition speech processing and detection are included Multi Dimensional m D Systems Theory and Applications which contains new research results in m D systems theory and impressive applications of multidimensional systems mainly in signal processing Communication Systems containing modern topics of communication as Digital systems of communication computer networks theory ATM networks optical networks hybrid fibber coaxial networks Internet etc Modern Numerical Techniques and Related Topics which covers some aspects of the modern computation science and technology   **Recent Advances in Communication Infrastructure** Axaykumar Mehta,Abhishek Rawat,Priyesh Chauhan,2019-11-12 This book gathers selected research papers presented at the International Conference on Power Control and Communication Infrastructure 2019 ICPCCI 2019 organized by the Institute of Infrastructure Technology Research and Management IITRAM Ahmedabad Gujarat India on July 4 5 2019 It presents technological developments in the fields of communications infrastructure which comprise of architecture products and network connections that allow for communications over the long distances The book includes some innovative ideas in the field of communication infrastructure specially satellite communication navigation systems artificial neural network encryption techniques and some other infrastructure related developments The solution approaches provided in this book encourage and inspire researchers industry professionals and policymakers to put these methods into practice   Recent Advances in Energy Systems, Power and Related Smart Technologies Kyandoghere Kyamakya,Pitshou Ntambu Bokoro,2023-09-19 This edited book proposes a collection of recently undertaken technical work on topics from various aspects of power engineering energy systems as well as integrated smart technologies and related challenges The scientific nature of the topics to be discussed in this book ranges from novel concepts to innovative implementations of smart technologies for promoting sustainable economic growth and development Furthermore this book substantially contributes to the relevant literature s advancement and possibly serves as a platform for future research endeavors and publications In addition knowledge enrichment and expansion of power engineering and energy systems in the context of the Fourth Industrial Revolution such as to be portrayed in this book fundamentally appeal to researchers power system engineers energy specialists data scientists decision makers as well as professionals involved in the various sectors that constitute the United Nations Sustainable Development Goals   *Recent*

Advances in Chaotic Systems and Synchronization Olfa Boubaker,Sajad Jafari,2018-11-05 Recent Advances in Chaotic Systems and Synchronization From Theory to Real World Applications is a major reference for scientists and engineers interested in applying new computational and mathematical tools for solving complex problems related to modeling analyzing and synchronizing chaotic systems Furthermore it offers an array of new real world applications in the field Written by eminent scientists in the field of control theory and nonlinear systems from 19 countries Cameroon China Ethiopia France Greece India Italia Iran Japan Mexico and more this book covers the latest advances in chaos theory along with the efficiency of novel synchronization approaches Readers will find the fundamentals and algorithms related to the analysis and synchronization of chaotic systems along with key applications including electronic design text and image encryption and robot control and tracking Explores and evaluates the latest real world applications of chaos across various engineering and biomedical engineering fields Investigates advances in chaos synchronization techniques including the continuous sliding mode control approach hybrid synchronization between chaotic and hyperchaotic systems and neural network synchronization Presents recent advances in chaotic systems through an overview of new systems and new proprieties

Recent Advances in Signals and Systems Omid Ansary,Meng Lin,B. R. Shivakumar,2024-11-19 This book comprises select peer reviewed papers from the International Conference on VLSI Signal Processing Power Electronics IoT Communication and Embedded Systems VSPICE 2023 The book provides insights into various aspects of electronics and communication engineering as a holistic approach The various topics covered in this book include VLSI embedded systems signal processing communication power electronics and the Internet of Things The contents mainly focus on the most recent innovations trends concerns and practical challenges and their solutions This book is useful for academicians professionals and researchers in the area of electronics and communications and electrical engineering   Recent Advances in Multimedia Signal Processing and Communications Mislav Grgic,Kresimir Delac,Mohammed Ghanbari,2009-10-14 The rapid increase in computing power and communication speed coupled with computer storage facilities availability has led to a new age of multimedia applications This book presents recent advances in Multimedia Signal Processing and Communications   **Clinical Psychiatry: Recent Advances and Future Directions, An Issue of Psychiatric Clinics of North America** David Baron,2015-09-07 Recent advances in clinical psychiatry are presented by David Baron and Lawrence Gross in this issue of Psychiatric Clinics Psychiatrists will find here disorders they deal with daily in patients and topics include Advances in Addictive disorders Geriatric and healthy aging Trauma and violence PTSD Schizophrenia Intellectual disabilities Neuropsychiatry Psychopharmacology Integrated care psychiatry and primary care Global and cultural psychiatry Mood disorders Also presented are the Future role of psychotherapy in psychiatry Public mental health in the Affordable Care Act era Genetics and Diagnostic classification DSM criteria how they are transitioning in future DSM V and beyond   **Recent Advances in Computer Science and Information Engineering** Zhihong Qian,Lei Cao,Weilian Su,Tingkai Wang,Huamin

Yang,2012-02-04 CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific engineering and technological research dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and potential application scenarios The congress has been held twice in Los Angeles USA for the first and in Changchun China for the second time each of which attracted a large number of researchers from all over the world The congress turns out to develop a spirit of cooperation that leads to new friendship for addressing a wide variety of ongoing problems in this vibrant area of technology and fostering more collaboration over the world The congress CSIE 2011 received 2483 full paper and abstract submissions from 27 countries and regions over the world Through a rigorous peer review process all submissions were refereed based on their quality of content level of innovation significance originality and legibility 688 papers have been accepted for the international congress proceedings ultimately *Recent Advances in Automation, Robotics and Measuring Techniques* Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2014-07-08 This book presents the recent advances and developments in control automation robotics and measuring techniques It presents contributions of top experts in the fields focused on both theory and industrial practice The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem The book presents the results of the International Conference AUTOMATION 2014 held 26 28 March 2014 in Warsaw Poland on Automation Innovations and Future Prospectives The presented theoretical results practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners solving industrial problems

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Table of Contents Recent Advances In Circuits And Systems

1. Understanding the eBook Recent Advances In Circuits And Systems
   - The Rise of Digital Reading Recent Advances In Circuits And Systems
   - Advantages of eBooks Over Traditional Books
2. Identifying Recent Advances In Circuits And Systems
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Recent Advances In Circuits And Systems
   - User-Friendly Interface
4. Exploring eBook Recommendations from Recent Advances In Circuits And Systems
   - Personalized Recommendations

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