

Recent Advances in Circuits and Systems



Nikos E. Mastorakis
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Recent Advances In Circuits And Systems

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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 Circuits, Systems And Signal Processing](#) n Mastorakis, 2002 [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 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 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 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

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 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 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

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 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 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 Monte Carlo Methods** Abdo Abou Jaoudé,2024-05-15 Monte Carlo methods or Monte Carlo experiments are a broad class of computational algorithms that rely on repeated random sampling to obtain numerical results This book provides a comprehensive overview of these methods discussing their fundamental aspects and their applications in solving a large array of problems Recent Advances in Monte Carlo Methods is a useful reference for scholars researchers and students in pure and applied mathematics physical sciences engineering and technology computer science numerical analysis scientific computing and the general sciences 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 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

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 Metrology Sanjay Yadav,Naveen Garg,Shankar G. Aggarwal,Shiv Kumar Jaiswal,Harish Kumar,Venu Gopal Achanta,2023-09-01 This book presents the select proceedings of the 11th National Conference on Advances in Metrology AdMet 2022 The book highlights and discusses the recent technological developments in the areas of fundamental and quantum metrology physico mechanical and electrical metrology time and frequency metrology materials metrology industrial and legal metrology digital transformation in metrology among others This book is aimed for those engaged in conformity assessment quality system management calibration and testing in all sectors of industry The book is a valuable reference for metrologists scientists engineers academicians and students from research institutes and industrial establishments to explore the future directions and research in the areas of sensors advance materials measurements and quality improvement

Recent Advances in Communication Networks and Embedded Systems Smain Femmam,Pascal Lorenz,2024-05-11 This book is devoted to enhanced version of selected papers presented at the 7th International Conference on Communication and Network Technology ICCNT 2023 The objective of the proceedings of ICCNT 2023 is to present the recent research results and technological advances in the fields of theoretical and experimental applications of embedded systems communications and signal processing decision as well as in emerging areas related to the tracks of the conference The specific topics of interest within the scope of this special issue include design tools for electronics and embedded systems embedded systems and software system on chip SoC multiprocessor system on chip MPSoC platforms and applications network on chip NoC design methodologies reconfigurable computing system design synthesis and optimization

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