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KEY=INTRODUCTION - AMINA CHEN

THEORY AND PRACTICE OF CONTROL AND SYSTEMS

World Scientific **This volume gathers together all the lectures presented at the 6th IEEE Mediterranean Conference. It focuses on the mathematical aspects in the theory and practice of control and systems, including stability and stabilizability, robust control, adaptive control, robotics and manufacturing; these topics are under intense investigation and development in the engineering and mathematics communities. The volume should have immediate appeal for a large group of engineers and mathematicians who are interested in very abstract as well as very concrete aspects of control and system theory. Contents: Quantified Multivariate Polynomial Inequalities: The Mathematics of (Almost) All Practical Control Design Problems (P Dorato)Digital Second Order Sliding Mode Control with Uncertainties Estimation for a Class of SISO Nonlinear Systems (G Bartolini et al.)Development and Identification of a Hierarchical System of Models for Rapid Prototyping of Si Engines (I Arsie et al.)Identification of Uncertainty Models for Robust Control Design (S Malan et al.)Second Order Chattering-Free Sliding Mode Control for Some Classes of Multi-Input Uncertain Nonlinear Systems (G Bartolini et al.)Sliding Mode Output Regulation of Linear and Nonlinear Systems with Relative Degree One (L Marconi et al.)Output Control of Nonlinear Systems with Multiple Discrete Delays (M Dalla Mora et al.)Analytical Synthesis of Least Curvature 2D Paths for Underwater Applications (G Indiveri et al.)Modelling and Control of Nonsmooth Hybrid Mechanical Systems (B Brogliato)Global Temperature Stabilization of Chemical Reactors with Bounded Control (R Antonelli & A Astolfi)Detection and Accommodation of Second Order Distributed Parameter Systems with Abrupt Changes in Input Term: Existence and Approximation (M A Demetriou et al.)Discrete-Event Models of Manufacturing Systems (E Canuto)Optimization of Internal Forces in Force-Closure Grasps (A Bicchi et al.)Loading Parts and Tools in a Flexible Manufacturing System (D Pacciarelli)and other papers Readership: Researchers in control & system theory, electrical & electronic engineering, mechanical & knowledge engineering and robotics.**

1997 IEEE INTERNATIONAL CONFERENCE ON INTELLIGENT PROCESSING SYSTEMS

OCTOBER 28-31, 1997, CENTRAL GARDEN HOTEL, BEIJING, CHINA

IEEE/ACM/IFIP INTERNATIONAL CONFERENCE ON HARDWARE/SOFTWARE CODESIGN & SYSTEM SYNTHESIS

WIRELESS SENSOR NETWORKS

APPLICATION - CENTRIC DESIGN

BoD – Books on Demand **Over the past decade, there has been a prolific increase in the research, development and commercialisation of Wireless Sensor Networks (WSNs) and their associated technologies. WSNs have found application in a vast range of different domains, scenarios and disciplines. These have included healthcare, defence and security, environmental monitoring and building/structural health monitoring. However, as a result of the broad array of pertinent applications, WSN researchers have also realised the application specificity of the domain; it is incredibly difficult, if not impossible, to find an application-independent solution to most WSN problems. Hence, research into WSNs dictates the adoption of an application-centric design process. This book is not intended to be a comprehensive review of all WSN applications and deployments to date. Instead, it is a collection of state-of-the-art research papers discussing current applications and deployment experiences, but also the communication and data processing technologies that are fundamental in further developing solutions to applications. Whilst a common foundation is retained through all chapters, this book contains a broad array of often differing interpretations, configurations and limitations of WSNs, and this highlights the diversity of this ever-changing research area. The chapters have been categorised into three distinct sections: applications and case studies, communication and networking, and information and data processing. The readership of this book is intended to be postgraduate/postdoctoral researchers and professional engineers, though some of the chapters may be of relevance to interested masters level students.**

FIRST IEEE/ACM/IFIP INTERNATIONAL CONFERENCE ON HARDWARE/SOFTWARE CODESIGN & SYSTEM SYNTHESIS

NEWPORT BEACH, CALIFORNIA, USA, OCTOBER 1-3, 2003

SYSTEMS DEVELOPMENT METHODS FOR DATABASES, ENTERPRISE MODELING, AND WORKFLOW MANAGEMENT

Springer Science & Business Media **This book is a result of the ISD'99, Eight International Conference on Infonnation Systems Development-Methods and Tools, Theory, and Practice held August 11-13, 1999 in Boise, Idaho, USA. The purpose of this conference was to address the issues facing academia and industry when specifying, developing, managing, and improving infonnation systems. ISD'99 consisted not only of the technical program represented in these Proceedings, but also of plenary sessions on product support and content management systems for the Internet environment, workshop on a new paradigm for successful acquisition of infonnation systems, and a panel discussion on current pedagogical issues in systems analysis and design. The selection of papers for ISD'99 was carried out by the International Program Committee. Papers presented during the conference and printed in this volume have been selected from submissions after fonnal double-blind reviewing process and have been revised by their authors based on the recommendations of reviewers. Papers were judged according to their originality, relevance, and presentation quality. All papers were judged purely on their own merits, independently of other submissions. We would like to thank the authors of papers accepted for ISD'99 who all made gallant efforts to provide us with electronic copies of their manuscripts confonning to common guidelines. We thank them for thoughtfully responding to reviewers comments and carefully preparing their final contributions. We thank Daryl Jones, provost of Boise State University and William Lathen, dean, College of Business and Economics, for their support and encouragement.**

1995 IEEE ENGINEERING IN MEDICINE AND BIOLOGY

17TH ANNUAL CONFERENCE AND 21ST CANADIAN MEDICAL AND BIOLOGICAL ENGINEERING CONFERENCE : MONTRÉAL, CANADA, SEPTEMBER 20-23, 1995

Institute of Electrical & Electronics Engineers(IEEE)

HARNESSING THE INTERNET OF EVERYTHING (IOE) FOR ACCELERATED INNOVATION OPPORTUNITIES

IGI Global **As innovators continue to explore and create new developments within the fields of artificial intelligence and computer science, subfields such as machine learning and the internet of things (IoT) have emerged. Now, the internet of everything (IoE), foreseen as a cohesive and intelligent connection of people, processes, data, and things, is theorized to make internet connections more valuable by converting information into wise actions that create unprecedented capabilities, richer experiences, and economic opportunities to all players in the market. Harnessing the Internet of Everything (IoE) for Accelerated Innovation Opportunities discusses the theoretical, design, evaluation, implementation, and use of innovative technologies within the fields of IoE, machine learning, and IoT. Featuring research on topics such as low-power electronics, mobile technology, and artificial intelligence, this book is ideally designed for computer engineers, software developers, investigators, advanced-level students, professors, and professionals seeking coverage on the various contemporary theories, technologies, and tools in IoE engineering.**

TELEMEDICINE TECHNOLOGIES

BIG DATA, DEEP LEARNING, ROBOTICS, MOBILE AND REMOTE APPLICATIONS FOR GLOBAL HEALTHCARE

Academic Press **Telemedicine Technologies: Big Data, Deep Learning, Robotics, Mobile and Remote Applications for Global Healthcare illustrates the innovative concepts, methodologies and frameworks that will increase the feasibility of the existing telemedicine system. The book also focuses on showcasing prototypes of remote healthcare systems, thus emphasizing the data processing side that is often recognized as the backbone of any telemedicine system. Illustrates the innovative concepts, methodologies and frameworks that will increase the feasibility of the existing telemedicine system Focuses on showcasing prototypes of remote healthcare systems**

ICONVET 2021

PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON VOCATIONAL EDUCATION AND TECHNOLOGY, ICONVET 2021, 27 NOVEMBER 2021, SINGARAJA, BALI, INDONESIA

European Alliance for Innovation **The 4th International Conference on Vocational Education and Technology is an international forum specially designed by the Faculty of Engineering and Vocational, Universitas Pendidikan Ganesha to bring together academics, researchers and professionals to present their ideas and experiences in a scientific event. IConVET 2021 welcomes paper submissions for innovative work from researchers from diverse backgrounds including students, teachers, researchers, practitioners and the general public in Education, Vocational and Technology. The IConVET-2021 theme is "Digital Transformation on TVET in The New Normal Era". This 4th International Conference on Vocational and Technology is attended by participants from more than 29 different university and institute, who represent Two different countries, namely Indonesia and France. Therefore, on behalf of the committee and the Research Institute of Universitas Pendidikan Ganesha. The success of the IConVET-2021 is due to the support of many**

people i.e. steering committee members, program committee members, organizing committee members, authors, presenters, participants, keynote speakers, student committee, and people in other various roles. We would like to thank them all.

SMART HOMES

DESIGN, IMPLEMENTATION AND ISSUES

Springer **The book addresses issues towards the design and development of Wireless Sensor Network based Smart Home and fusion of Real-Time Data for Wellness Determination of an elderly person living alone in a Smart Home. The fundamentals of selection of sensor, fusion of sensor data, system design, modelling, characterizations, experimental investigations and analyses have been covered. This book will be extremely useful for the engineers and researchers especially higher undergraduate, postgraduate students as well as practitioners working on the development of Wireless Sensor Networks, Internet of Things and Data Mining.**

GRID CONVERTERS FOR PHOTOVOLTAIC AND WIND POWER SYSTEMS

John Wiley & Sons **Grid converters are the key player in renewable energy integration. The high penetration of renewable energy systems is calling for new more stringent grid requirements. As a consequence, the grid converters should be able to exhibit advanced functions like: dynamic control of active and reactive power, operation within a wide range of voltage and frequency, voltage ride-through capability, reactive current injection during faults, grid services support. This book explains the topologies, modulation and control of grid converters for both photovoltaic and wind power applications. In addition to power electronics, this book focuses on the specific applications in photovoltaic wind power systems where grid condition is an essential factor. With a review of the most recent grid requirements for photovoltaic and wind power systems, the book discusses these other relevant issues: modern grid inverter topologies for photovoltaic and wind turbines islanding detection methods for photovoltaic systems synchronization techniques based on second order generalized integrators (SOGI) advanced synchronization techniques with robust operation under grid unbalance condition grid filter design and active damping techniques power control under grid fault conditions, considering both positive and negative sequences Grid Converters for Photovoltaic and Wind Power Systems is intended as a coursebook for graduated students with a background in electrical engineering and also for professionals in the evolving renewable energy industry. For people from academia interested in adopting the course, a set of slides is available for download from the website. www.wiley.com/go/grid_converters**

2000 IEEE INTELLIGENT TRANSPORTATION SYSTEMS CONFERENCE PROCEEDINGS

OCTOBER 1-3, 2000, THE RITZ CARLTON HOTEL, DEARBORN (MI), USA.

Institute of Electrical & Electronics Engineers(IEEE) **This text on intelligent transportation systems covers topics such as sensors, communications, simulation, man-machine interfaces, control, decision systems, information systems, computers, reliability and quality assurance, and navigation and guidance systems.**

SUSTAINABLE CLOUD AND ENERGY SERVICES

PRINCIPLES AND PRACTICE

Springer **This is the first book entirely devoted to providing a perspective on the state-of-the-art of cloud computing and energy services and the impact on designing sustainable systems. Cloud computing services provide an efficient approach for connecting infrastructures and can support sustainability in different ways. For example, the design of more efficient cloud services can contribute in reducing energy consumption and environmental impact. The chapters in this book address conceptual principles and illustrate the latest achievements and development updates concerning sustainable cloud and energy services. This book serves as a useful reference for advanced undergraduate students, graduate students and practitioners interested in the design, implementation and deployment of sustainable cloud based energy services. Professionals in the areas of power engineering, computer science, and environmental science and engineering will find value in the multidisciplinary approach to sustainable cloud and energy services presented in this book.**

HYBRID ARTIFICIAL INTELLIGENT SYSTEMS

10TH INTERNATIONAL CONFERENCE, HAIS 2015, BILBAO, SPAIN, JUNE 22-24, 2015, PROCEEDINGS

Springer **This volume constitutes the proceedings of the 10th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2015, held Bilbao, Spain, June 2014. The 60 papers published in this volume were carefully reviewed and selected from 190 submissions. They are organized in topical sections such as data mining and knowledge discovery; video and image analysis; bio-inspired models and evolutionary computation; learning algorithms; hybrid intelligent systems for data mining and applications; classification and cluster analysis, HAIS applications.**

PROCEEDINGS OF THE 25TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY

A NEW BEGINNING FOR HUMAN HEALTH : 17-21 SEPTEMBER, 2003, CANCÚN, MEXICO

SMART HEALTHCARE SYSTEM DESIGN

SECURITY AND PRIVACY ASPECTS

John Wiley & Sons **The purpose of this book is to help achieve a better integration between the work of researchers and practitioners in a single medium for capturing state-of-the-art IoT solutions in healthcare applications to address how to improve the proficiency of wireless sensor networks (WSNs) in healthcare. It explores possible automated solutions in everyday life, including the structures of healthcare systems built to handle large amounts of data, thereby improving clinical decisions; which is why this book will prove invaluable to professionals who want to increase their understanding of recent challenges in the IoT-enabled healthcare domain. The 14 chapters address various aspects of the IoT system, such as design challenges, theory, various protocols, and implementation issues, and also include several case studies. Smart Healthcare System: Security and Privacy Aspects covers the introduction, development, and applications of smart healthcare models that represent the current state-of-the-art of various domains. The primary focus will be on theory, algorithms, and their implementation targeted at real-world problems. It will deal with different applications to give the practitioner a flavor of how IoT architectures are designed and introduced into various situations. More particularly, this volume consists of 14 chapters contributed by authors well-versed in the subject who are devoted to reporting the latest findings on smart healthcare system design.**

UBIQUITOUS COMPUTING: DESIGN, IMPLEMENTATION AND USABILITY

DESIGN, IMPLEMENTATION AND USABILITY

IGI Global **Interactive systems in the mobile, ubiquitous, and virtual environments are at a stage of development where designers and developers are keen to find out more about design, use and usability of these systems. Ubiquitous Computing: Design, Implementation and Usability highlights the emergent usability theories, techniques, tools and best practices in these environments. This book shows that usable and useful systems are able to be achieved in ways that will improve usability to enhance user experiences. Research on the usability issues for young children, teenagers, adults, and the elderly is presented, with different techniques for the mobile, ubiquitous, and virtual environments.**

BLUETOOTH 5.0 MODEM DESIGN FOR IOT DEVICES

Springer Nature

2021 INTERNATIONAL CONFERENCE ON ADVANCE COMPUTING AND INNOVATIVE TECHNOLOGIES IN ENGINEERING (ICACITE)

This conference gives scope to researchers, academicians, students, industrialist etc This conference focuses on main new technologies such as AI, Big data, robotics, energy management, power system, power electronics, renewable energy, wireless communication, control system, robotics, machine learning, deep learning etc This conference will provide an knowledge exposure to the participants by listening to the well renowned speakers at national and international level

RECENT DEVELOPMENT IN WIRELESS SENSOR AND AD-HOC NETWORKS

Springer **Wireless Sensor Network (WSN) consists of numerous physically distributed autonomous devices used for sensing and monitoring the physical and/or environmental conditions. A WSN uses a gateway that provides wireless connectivity to the wired world as well as distributed networks. There are many open problems related to Ad-Hoc networks and its applications. Looking at the expansion of the cellular infrastructure, Ad-Hoc network may be acting as the basis of the 4th generation wireless technology with the new paradigm of 'anytime, anywhere communications'. To realize this, the real challenge would be the security, authorization and management issues of the large scale WSNs. This book is an edited volume in the broad area of WSNs. The book covers various chapters like Multi-Channel Wireless Sensor Networks, its Coverage, Connectivity as well as Deployment. It covers comparison of various communication protocols and algorithms such as MANNET, ODMRP and ADMR Protocols for Ad hoc Multicasting, Location Based Coordinated Routing Protocol and other Token based group local mutual exclusion Algorithms. The book also covers a chapter on Extended Ad hoc On-Demand Distance Vector (EAODV) routing protocol based on Distributed Minimum Transmission Multicast Routing (DMTMR). One chapter is dedicated to OCDMA and its future application and another chapter covers development of Home Automation System using SWN.**

HANDBOOK ON THEORETICAL AND ALGORITHMIC ASPECTS OF SENSOR, AD HOC WIRELESS, AND PEER-TO-PEER NETWORKS

CRC Press **The availability of cheaper, faster, and more reliable electronic components has stimulated important advances in computing and communication technologies. Theoretical and algorithmic approaches that address key issues in sensor networks, ad hoc wireless networks, and peer-to-peer networks play a central role in the development of emerging network paradigms. Filling the need for a comprehensive reference on recent developments, Handbook on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless, and Peer-to-Peer Networks explores two questions: What are the central technical issues in these SAP networks? What are the possible solutions/tools available to address**

these issues? The editor brings together information from different research disciplines to initiate a comprehensive technical discussion on theoretical and algorithmic approaches to three related fields: sensor networks, ad hoc wireless networks, and peer-to-peer networks. With chapters written by authorities from Motorola, Bell Lab, and Honeywell, the book examines the theoretical and algorithmic aspects of recent developments and highlights future research challenges. The book's coverage includes theoretical and algorithmic methods and tools such as optimization, computational geometry, graph theory, and combinatorics. Although many books have emerged recently in this area, none of them address all three fields in terms of common issues.

PRACTICAL RF SYSTEM DESIGN

John Wiley & Sons **The ultimate practical resource for today's RF system design professionals Radio frequency components and circuits form the backbone of today's mobile and satellite communications networks. Consequently, both practicing and aspiring industry professionals need to be able to solve ever more complex problems of RF design. Blending theoretical rigor with a wealth of practical expertise, Practical RF System Design addresses a variety of complex, real-world problems that system engineers are likely to encounter in today's burgeoning communications industry with solutions that are not easily available in the existing literature. The author, an expert in the field of RF module and system design, provides powerful techniques for analyzing real RF systems, with emphasis on some that are currently not well understood. Combining theoretical results and models with examples, he challenges readers to address such practical issues as: * How standing wave ratio affects system gain * How noise on a local oscillator will affect receiver noise figure and desensitization * How to determine the dynamic range of a cascade from module specifications * How phase noise affects system performance and where it comes from * How intermodulation products (IMs) predictably change with signal amplitude, and why they sometimes change differently An essential resource for today's RF system engineers, the text covers important topics in the areas of system noise and nonlinearity, frequency conversion, and phase noise. Along with a wealth of practical examples using MATLAB(r) and Excel, spreadsheets are available for download from an FTP Web site to help readers apply the methods outlined in this important resource.**

WIRELESS TRANSCEIVER SYSTEMS DESIGN

Springer Science & Business Media **The fields of communication, signal processing, and embedded systems and circuits are brought together in this book. These fields come together with a single design goal, a WLAN transceiver which combines analog and digital design, VLSI and systems design, algorithms and architectures, as well as design and CAD/EDA. This book focuses on the overall approach to design problems and design organization needed for transceiver design. It does not focus on one particular standard.**

CONTROL OF POWER INVERTERS IN RENEWABLE ENERGY AND SMART GRID INTEGRATION

John Wiley & Sons **Integrating renewable energy and other distributed energysources into smart grids, often via power inverters, is arguablythe largest "new frontier" for smart grid advancements.Inverters should be controlled properly so that their integrationdoes not jeopardize the stability and performance of power systemsand a solid technical backbone is formed to facilitate otherfunctions and services of smart grids. This unique reference offers systematic treatment of importantcontrol problems in power inverters, and different generalconverter theories. Starting at a basic level, it presentsconventional power conversion methodologies and then'non-conventional' methods, with a highly accessiblesummary of the latest developments in power inverters as well asinsight into the grid connection of renewable power. Consisting of four parts – Power Quality Control, NeutralLine Provision, Power Flow Control, and Synchronisation –this book fully demonstrates the integration of control and powerelectronics. Key features include: the fundamentals of power processing and hardware design innovative control strategies to systematically treat thecontrol of power inverters extensive experimental results for most of the controlstrategies presented the pioneering work on "synchronverters" which hasgained IET Highly Commended Innovation Award Engineers working on inverter design and those at power systemutilities can learn how advanced control strategies could improvesystem performance and work in practice. The book is a usefulreference for researchers who are interested in the area of controlengineering, power electronics, renewable energy and distributedgeneration, smart grids, flexible AC transmission systems, andpower systems for more-electric aircraft and all-electric ships.This is also a handy text for graduate students and universityprofessors in the areas of electrical power engineering, advancedcontrol engineering, power electronics, renewable energy and smartgrid integration.**

COMPUTATIONAL INTELLIGENCE - VOLUME I

EOLSS Publications **Computational intelligence is a component of Encyclopedia of Technology, Information, and Systems Management Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Computational intelligence is a rapidly growing research field including a wide variety of problem-solving techniques inspired by nature. Traditionally computational intelligence consists of three major research areas: Neural Networks, Fuzzy Systems, and Evolutionary Computation. Neural networks are mathematical models inspired by brains. Neural networks have massively parallel network structures with many neurons and weighted connections. Whereas each neuron has a simple input-output relation, a neural network with many neurons can realize a highly non-linear complicated mapping. Connection weights between neurons can be adjusted in an automated manner by a learning algorithm to realize a non-linear mapping required in a particular application task. Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language.**

For example, it is very difficult to mathematically define the meaning of "cold" in everyday conversations such as "It is cold today" and "Can I have cold water". The meaning of "cold" may be different in a different situation. Even in the same situation, a different person may have a different meaning. Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language. As a result, fuzzy systems have been successfully applied to real-world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF-THEN rules. Evolutionary computation includes various population-based search algorithms inspired by evolution in nature. Those algorithms usually have the following three mechanisms: fitness evaluation to measure the quality of each solution, selection to choose good solutions from the current population, and variation operators to generate offspring from parents. Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it does not need any explicit mathematical formulations of objective functions. For example, simulation-based fitness evaluation is often used in evolutionary design. Subjective fitness evaluation by a human user is also often used in evolutionary art and music. These volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers.

BREAKTHROUGH PERSPECTIVES IN NETWORK AND DATA COMMUNICATIONS SECURITY, DESIGN AND APPLICATIONS

IGI Global **Addresses key issues and offers expert viewpoints into the field of network and data communications. Presents research articles that investigate the most significant issues in network and data communications.**

DESIGN AND ENGINEERING OF INTELLIGENT COMMUNICATION SYSTEMS

Springer Science & Business Media **This book presents current and established techniques for designing and engineering new intelligent telecommunications systems. The objective of this book is twofold. First, to provide communication system designers with information for modernizing existing networks, and for making these networks carry voice, data and multimedia information. Second, to provide network designers with numerous illustrations for fabricating and building new networks using the most recent technology. This work also includes a vast amount of material on many of the rapidly expanding telecommunications related areas such as Wireless ATM, HDSL, ADSL, loop topologies from the ANSI, ETSI, ITU, copper and hybrid fiber coaxial systems, cable TV networks, ISDN performance, fiber optics, SONET, and other current telecom topics. It includes a wealth of figures and tables as well as 21 pages of telecom acronyms with definitions. Design and Engineering of Intelligent Communication Systems is written for researchers and telecom professionals interested in building intelligent communications systems.**

INDUSTRIAL ELECTROMAGNETICS MODELLING

PROCEEDINGS OF THE POLYMODEL 6, THE SIXTH ANNUAL CONFERENCE OF THE NORTH EAST POLYTECHNICS MATHEMATICAL MODELLING AND COMPUTER SIMULATION GROUP, HELD AT THE MOAT HOUSE HOTEL, NEWCASTLE UPON TYNE, MAY 1983

Springer Science & Business Media **During the past few years the rapid development of computer tech nology has made high power computing facilities more readily accessible to a greater proportion of our industrial and academic community. This development coupled with the recent upsurge in mathematical modelling and computer simulation has led to signif icant developments in electromagnetic field theory and its applic ations to industry. In view of such developments and the present high interest to both academics and industry the theme chosen for the Polymodel 6 Conference held at Newcastle upon Tyne in May 1983 was Industrial Electromagnetics Modelling. To date the North East Polytechnics Mathematical Modelling and Computer Simulation Group has organised five successful Polymodel. conferences each with a different theme. The objectives of the Polymodel group include the promotion of collaborative research between Newcastle, Sunderland and Teesside Polytechnics and industry in the areas of mathematical modelling and computer simulation. The aim of the Polymodel 6 Conference was to call on and use the modelling and computer.simulation expertise of eminent academics and industrialists who are deeply involved in the area of electro magnetics. These proceedings have a twofold purpose in that they contain current analytical and numerical techniques relevant to electromagnetic field problems and useful ideas on the modelling and simulation techniques which are most appropriate. It was also felt important to include implications. of. computer developments (both hardware and software) on such work.**

BRAIN-COMPUTER INTERFACES FOR NON-CLINICAL (HOME, SPORTS, ART, ENTERTAINMENT, EDUCATION, WELL-BEING) APPLICATIONS

Frontiers Media SA

INNOVATIONS IN ELECTRICAL AND ELECTRONICS ENGINEERING

PROCEEDINGS OF THE 4TH ICIEEE 2019

Springer Nature **This book is a collection of selected research papers presented at the International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE 2019), which was organized by the Guru Nanak Institutions, Ibrahimpatnam, Hyderabad, Telangana, India, on July 26–27, 2019. The book highlights the latest developments in electrical and electronics engineering, especially in the areas of power systems, power electronics,**

control systems, electrical machinery, and renewable energy. The solutions discussed here will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

INTELLIGENT PERVASIVE COMPUTING SYSTEMS FOR SMARTER HEALTHCARE

John Wiley & Sons **A guide to intelligent decision and pervasive computing paradigms for healthcare analytics systems with a focus on the use of bio-sensors Intelligent Pervasive Computing Systems for Smarter Healthcare describes the innovations in healthcare made possible by computing through bio-sensors. The pervasive computing paradigm offers tremendous advantages in diversified areas of healthcare research and technology. The authors—noted experts in the field—provide the state-of-the-art intelligence paradigm that enables optimization of medical assessment for a healthy, authentic, safer, and more productive environment. Today's computers are integrated through bio-sensors and generate a huge amount of information that can enhance our ability to process enormous bio-informatics data that can be transformed into meaningful medical knowledge and help with diagnosis, monitoring and tracking health issues, clinical decision making, early detection of infectious disease prevention, and rapid analysis of health hazards. The text examines a wealth of topics such as the design and development of pervasive healthcare technologies, data modeling and information management, wearable biosensors and their systems, and more. This important resource: Explores the recent trends and developments in computing through bio-sensors and its technological applications Contains a review of biosensors and sensor systems and networks for mobile health monitoring Offers an opportunity for readers to examine the concepts and future outlook of intelligence on healthcare systems incorporating biosensor applications Includes information on privacy and security issues on wireless body area network for remote healthcare monitoring Written for scientists and application developers and professionals in related fields, Intelligent Pervasive Computing Systems for Smarter Healthcare is a guide to the most recent developments in intelligent computer systems that are applicable to the healthcare industry.**

DIGITAL SYSTEMS TESTING AND TESTABLE DESIGN

Wiley-IEEE Press **This updated printing of the leading text and reference in digital systems testing and testable design provides comprehensive, state-of-the-art coverage of the field. Included are extensive discussions of test generation, fault modeling for classic and new technologies, simulation, fault simulation, design for testability, built-in self-test, and diagnosis. Complete with numerous problems, this book is a must-have for test engineers, ASIC and system designers, and CAD developers, and advanced engineering students will find this book an invaluable tool to keep current with recent changes in the field.**

ENERGY ABSTRACTS FOR POLICY ANALYSIS

USABILITY, ACCESSIBILITY AND AMBIENT ASSISTED LIVING

Springer **Worldwide, the population ageing is a reality. The concept of Active Ageing, adopted by the World Health Organization, aims to guarantee quality ageing and appears as a strategy to solve this demographic challenge. The technological solutions might have a key role in the promotion of human functioning and in the mitigation of disabilities, particularly those resulting from the natural ageing process. This perspective is evident in the development of Ambient Assisted Living (AAL) solutions. In this context, it is relevant to know about the recent developments in AAL and discuss future trends and challenges in this area. One of the objectives of this book is to do a systematic literature review on AAL, not only considering the technology used, but also the health condition that is intended to improve. For this purpose, we consider the human functioning, in particular the conceptual model of International Classification of Functioning, Disability and Health (ICF). Considering that the ICF conceptual framework is accepted within the healthcare domain, the use of its concepts and terminologies to promote multidisciplinary approaches for AAL solutions development processes can help to overcome difficulties of communication between users, careers and technological developers. AAL solutions must consider in their development the needs of the person that will use AAL solutions. The development must be user-centred and usability questions cannot be forgotten. In addition, the acceptance of the AAL solutions is closely related to the quality of the systems, so it is necessary to appropriately assess these solutions.**

TELEHEALTH NETWORKS FOR HOSPITAL SERVICES: NEW METHODOLOGIES

NEW METHODOLOGIES

IGI Global **Innovations in providing vital health care in homes and remote areas could ultimately change the way society views the health care markets and services in the future. Telehealth systems promise innovations that can extend a hospital's knowledge and resources, connecting with patients who may not be able to otherwise receive services. Telehealth Network for Hospital Services: New Methodologies carefully focuses on and describes different networks that link hospitals and their services to patients outside their territory. This reference work not only focuses on the technology that is integral to the function of a telehealth network, but also its users, and the collaboration that is necessary to be successful. Researchers, practitioners, and health professionals interested in understanding health markets and organizations, as well as the innovative technologies that help them function, will greatly benefit from this publication.**

ADVANCES IN COMPUTER SCIENCE AND UBIQUITOUS COMPUTING

CSA-CUTE2016

Springer **This book presents the combined proceedings of the 8th International Conference on Computer Science and its Applications (CSA-16) and the 11st International Conference on Ubiquitous Information Technologies and Applications (CUTE 2016), both held in Bangkok, Thailand, December 19 - 21, 2016. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state-of-the-art in the development of computational methods, involving theory, algorithm, numerical simulation, error and uncertainty analysis and novel application of new processing techniques in engineering, science, and other disciplines related to ubiquitous computing.**

RF IMPERFECTIONS IN HIGH-RATE WIRELESS SYSTEMS

IMPACT AND DIGITAL COMPENSATION

Springer Science & Business Media **This is one of the first books on the emerging research topic of digital compensation of RF imperfections. The book presents a new multidisciplinary vision on the design of wireless communication systems. In this approach the imperfections of the RF front-ends are accepted and digital signal processing algorithms are designed to suppress their impact on system performance. The book focuses on multiple-antenna orthogonal frequency division multiplexing (MIMO OFDM).**

UX FOR DEVELOPERS

HOW TO INTEGRATE USER-CENTERED DESIGN PRINCIPLES INTO YOUR DAY-TO-DAY DEVELOPMENT WORK

Apress **Become more mindful of the user when building digital products, and learn how to integrate a user-centered approach into your thinking as a web or app developer. This book shows you how the user experience is the responsibility of everyone involved in creating the product and how to redefine development principles when building user-centered digital products. There are still many organizations that are not design driven, and the gap between stereotypical design and development teams needs to be bridged in order to build digital products that cater to the needs of real people. We are at a point where we see organizations that cannot bring the user experience into their core thinking falling behind their competitors. You'll see how to increase the level of UX maturity within any organization by tackling what is possibly the biggest stumbling block that stands between design and development: putting user needs ahead of system efficiency. UX for Developers shows how you can adjust your focus in order to be more mindful of the user when building digital products. Learn to care about what you build, not just for the system's sake, but for those who will use what you build. What You'll Learn Understand what it means to build websites and applications for the user, rather than from a developer's perspective. Review the soft skills required to build more usable digital productsDiscover the tools and techniques to adopt a user-focused approach to development.Improve communication throughout design and development, especially between developers and non-developers. Who This Book Is For Primary audience is Web/app developers that are looking to understand what it takes to build usable digital products. Secondary audience is UX Designers who are looking to understand the viewpoint of developers; Project managers and stakeholders who need to facilitate better working relationships between developers and designers.**

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