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ensuring reliable communication is an important concern in short range wireless communication systems with stringent quality of service requirements key characteristics of these systems including data rate communication range channel profiles network topologies and power efficiency are very different from those in long range systems this comprehensive book classifies short range

wireless technologies as high and low data rate systems it addresses major factors affecting reliability at different layers of the protocol stack detailing the best ways to enhance the capacity and performance of short range wireless systems particular emphasis is placed on reliable channel estimation state of the art interference mitigation techniques and cooperative communications for improved reliability the book also provides detailed coverage of related international standards including uwb zigbee and 60 ghz communications with a balanced treatment of theoretical and practical aspects of short range wireless communications and with a focus on reliability this is an ideal resource for practitioners and researchers in wireless communications

this handbook is designed to help information technology and networking professionals to smoothly navigate the network communication protocol territories computer books general information

supported by the expert level advice of pioneering researchers orthogonal frequency division multiple access fundamentals and applications provides a comprehensive and accessible introduction to the foundations and applications of one of the most promising access technologies for current and future wireless networks it includes authoritative cove

this book constitutes the refereed proceedings of the first international conference on applied cryptography and network security acns 2003 held in kunming china in october 2003 the 32 revised full papers presented were carefully reviewed and selected from a total of 191 submissions the papers are organized in topical sections on cryptographic applications intrusion detection cryptographic algorithms digital signatures security modeling security security protocols cryptanalysis key management and efficient implementations

this book constitutes the refereed proceedings of the 6th international workshop on cryptographic hardware and embedded systems ches 2004 held in cambridge ma usa in august 2004 the 32 revised full papers presented were carefully reviewed and selected from 125 submissions the papers are organized in topical sections on side channels modular multiplication low resources implementation aspects collision attacks fault attacks hardware implementation and authentication and signatures

this book constitutes the thoroughly refereed post proceedings of the first international conference on security in pervasive computing held in boppard germany in march 2003 the 19 revised full papers presented together with abstracts of 4 invited talks and a workshop summary were carefully selected during two rounds of reviewing and improvements the papers are organized in topical sections on location privacy security requirements security policies and protection authentication and trust secure infrastructures

smart labels verifications and hardware architectures

the classic and authoritative reference in the field of computer security now completely updated and revised with the continued presence of large scale computers the proliferation of desktop laptop and handheld computers and the vast international networks that interconnect them the nature and extent of threats to computer security have grown enormously now in its fifth edition computer security handbook continues to provide authoritative guidance to identify and to eliminate these threats where possible as well as to lessen any losses attributable to them with seventy seven chapters contributed by a panel of renowned industry professionals the new edition has increased coverage in both breadth and depth of all ten domains of the common body of knowledge defined by the international information systems security certification consortium isc of the seventy seven chapters in the fifth edition twenty five chapters are completely new including 1 hardware elements of security 2 fundamentals of cryptography and steganography 3 mathematical models of information security 4 insider threats 5 social engineering and low tech attacks 6 spam phishing and trojans attacks meant to fool 7 biometric authentication 8 vpns and secure remote access 9 securing peer2peer im sms and collaboration tools 10 u s legal and regulatory security issues such as glba and sox whether you are in charge of many computers or just one important one there are immediate steps you can take to safeguard your computer system and its contents computer security handbook fifth edition equips you to protect the information and networks that are vital to your organization

wireless networking complete is a compilation of critical content from key morgan kaufmann titles published in recent years on wireless networking and communications individual chapters are organized into one complete reference giving a 360 degree view from our bestselling authors from wireless application protocols to mesh networks and ad hoc sensor networks to security and survivability of wireless systems all of the elements of wireless networking are united in a single volume the book covers both methods of analysis and problem solving techniques enhancing the reader s grasp of the material and ability to implement practical solutions this book is essential for anyone interested in new and developing aspects of wireless network technology chapters contributed by recognized experts in the field cover theory and practice of wireless network technology allowing the reader to develop a new level of knowledge and technical expertise up to date coverage of wireless networking issues facilitates learning and lets the reader remain current and fully informed from multiple viewpoints presents methods of analysis and problem solving techniques enhancing the reader s grasp of the material and ability to implement practical solutions

content distribution i e distributing digital content from one node to another node or multiple nodes is the most fundamental function

of the internet since amazon's launch of ec2 in 2006 and apple's release of the iphone in 2007 internet content distribution has shown a strong trend toward polarization on the one hand considerable investments have been made in creating heavyweight integrated data centers heavy cloud all over the world in order to achieve economies of scale and high flexibility efficiency of content distribution on the other hand end user devices light end have become increasingly lightweight mobile and heterogeneous creating new demands concerning traffic usage energy consumption bandwidth latency reliability and or the security of content distribution based on comprehensive real world measurements at scale we observe that existing content distribution techniques often perform poorly under the abovementioned new circumstances motivated by the trend of heavy cloud vs light end this book is dedicated to uncovering the root causes of today's mobile networking problems and designing innovative cloud based solutions to practically address such problems our work has produced not only academic papers published in prestigious conference proceedings like sigcomm nsdi mobicom and mobisys but also concrete effects on industrial systems such as xiaomi mobile miui os tencent app store baidu phoneguard and wifi com a series of practical takeaways and easy to follow testimonials are provided to researchers and practitioners working in mobile networking and cloud computing in addition we have released as much code and data used in our research as possible to benefit the community

from smart sensors to cloud integration and the world of tinyml this book is your comprehensive guide to the iot ecosystem using the esp32 and industry standard tools and technologies key features build iot projects from scratch using esp32 customize solutions take them to cloud visualize real time data implement security features practice using a variety of hands on projects such as an audio player smart home and more book description esp32 a low cost and energy efficient system on a chip microcontroller has become the backbone of numerous wifi devices fueling iot innovation this book offers a holistic approach to building an iot system from the ground up ensuring secure data communication from sensors to cloud platforms empowering you to create production grade iot solutions using the esp32 soc starting with iot essentials supported by real world use cases this book takes you through the entire process of constructing an iot device using esp32 each chapter introduces new dimensions to your iot applications covering sensor communication the integration of prominent iot libraries like littlefs and lvgl connectivity options via wifi security measures cloud integration and the visualization of real time data using grafana furthermore a dedicated section explores ai ml for embedded systems guiding you through building and running ml applications with tinyml and esp32 s3 to create state of the art embedded products this book adopts a hands on approach ensuring you can start building iot solutions right from the beginning towards the end of the book you'll tackle a full scale smart home project applying all the techniques you've learned in real time embark on your journey to build secure production grade iot systems with esp32 today what you will learn explore esp32 with ide and debugging tools for

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this book addresses the issues of the rapidly changing field of wireless wearable and implantable sensors it also discusses the latest technological developments and clinical applications of body sensor networks bsn bsn is a new area of research and the last decade has seen a rapid surge of interest the book also provides a review of current wireless sensor development platforms and a guide to developing your own bsn applications

big data analytics is on the rise in the last years of the current decade data are overwhelming the computation capacity of high performance servers cloud grid edge and fog computing are a few examples of the current hype computational intelligence offers two faces to deal with the development of models on the one hand the crisp approach which considers for every variable an exact value and on the other hand the fuzzy focus which copes with values between two boundaries this book presents 114 papers from the 4th international conference on fuzzy systems and data mining fsdm 2018 held in bangkok thailand from 16 to 19 november 2018 all papers were carefully reviewed by program committee members who took into consideration the breadth and depth of the research topics that fall within the scope of fsdm the acceptance rate was 32.85 offering a state of the art overview of fuzzy systems and data mining the publication will be of interest to all those whose work involves data science

this book constitutes the refereed proceedings of the 5th international conference on convergence and hybrid information technology ichit 2011 held in daejeon korea in september 2011 the 85 revised full papers presented were carefully reviewed and selected from 144 submissions the papers are organized in topical sections on communications and networking motion video image processing security systems cloud rfid and robotics industrial application of software systems hardware and software engineering healthcare eeg and e learning hci and data mining software system and its applications

this book offers comprehensive explanations of topics in computer system security in order to combat the growing risk associated

with technology provided by publisher

this book constitutes the proceedings of the 14th international conference on applied reconfigurable computing arc 2018 held in santorini greece in may 2018 the 29 full papers and 22 short presented in this volume were carefully reviewed and selected from 78 submissions in addition the volume contains 9 contributions from research projects the papers were organized in topical sections named machine learning and neural networks fpga based design and cgra optimizations applications and surveys fault tolerance security and communication architectures reconfigurable and adaptive architectures design methods and fast prototyping fpga based design and applications and special session research projects

software defined radio sdr is a hot topic in the telecommunications field with regard to wireless technology it is one of the most important topics of research in the area of mobile and personal communications sdr is viewed as the enabler of global roaming and a platform for the introduction of new technologies and services into existing live networks it therefore gives networks a greater flexibility into mobile communications it bridges the inter disciplinary gap in the field as sdr covers two areas of development namely software development and digital signal processing and the internet it extends well beyond the simple re configuration of air interface parameters to cover the whole system from the network to service creation and application development reconfigurability entails the pervasive use of software reconfiguration empowering upgrades or patching of any element of the network and of the services and applications running on it it cuts across the types of bearer radio systems paging to cellular wireless local area network to microwave terrestrial to satellite personal communications to broadcasting enable the integration of many of today s disparate systems in the same hardware platform also it cuts across generation second to third to fourth this volume complements the already published volumes 1 and 2 of the wiley series in software radio the book discusses the requirements for reconfigurability and then introduces network architectures and functions for reconfigurable terminals finally it deals with reconfiguration in the network the book also provides a comprehensive view on reconfigurability in three very active research projects as cast mobivas and trust scout key features include presents new research in wireless communications summarises the results of an extensive research program on software defined radios in europe provides a comprehensive view on reconfigurability in three very active research projects as cast configurable radio with advanced software technology mobivas downloadable mobile value added services through software radio and switching integrated platforms trust transparently re configurable ubiquitous terminal and scout smart user centric communication environment

this book discusses topics in mission oriented sensor networks and systems research and practice enabling readers to understand the major technical and application challenges of these networks with respect to their architectures protocols algorithms and application design it also presents novel theoretical and practical ideas which have led to the development of solid foundations for the design analysis and implementation of energy efficient reliable and secure mission oriented sensor network applications covering various topics including sensor node architecture sensor deployment mobile coverage mission assignment detection localization tracking data dissemination data fusion topology control geometric routing location privacy secure communication and cryptograph it is a valuable resource for computer scientists researchers and practitioners in academia and industry

modern human societies rely on measurements measurements are essential for understanding and describing the world around us and the overall nature ensuring measurement accuracy traceability and consistency is important in scientific research trade manufacturing health and medicine and the everyday running of modern societies one of the most essential components of measurement is the calibration this book walks the reader through fundamental principles of calibrations traditional calibration methods the related standards and procedures as well as the fast developing and diverse range of artificial intelligence ai based calibration methods calibration complies with strict regulations and legislation by governments relevant authorities and concerned parties new and effective calibration techniques are evolving in parallel to the traditional methods as explained here new techniques that are based on ai offer instantaneous continuous calibrations in standalone devices as well as in complex and large systems continuous and large scale calibrations are possible due to the new generation of computers and advanced digital systems intelligent devices and sensors communication networks advanced mathematical methods and the newly developed areas such as cyber physical concepts this book highlights that advanced technological and ai methods are applied for the calibration of distributed cyber physical and data driven applications ai based calibrations find applications in large scale systems where traditional methods have become almost impossible to implement or can be costly typical examples are internet of things iots self driving vehicles intelligent transportation systems unmanned aerial vehicles drones and drone clusters industrial processes communication networks health and medicine environmental monitoring pollution control remote and inaccessible devices smart cities space explorations management systems economics and finance

this book focuses on key simulation and evaluation technologies for 5g systems based on the most recent research results from academia and industry it describes the evaluation methodologies in depth for network and physical layer technologies the evaluation methods are discussed in depth it also covers the analysis of the 5g candidate technologies and the testing challenges the evolution

of the testing technologies fading channel measurement and modeling software simulations software hardware cosimulation field testing and other novel evaluation methods the fifth generation 5g mobile communications system targets highly improved network performances in terms of the network capacity and the number of connections testing and evaluation technologies is widely recognized and plays important roles in the wireless technology developments along with the research on basic theory and key technologies the investigation and developments on the multi level and comprehensive evaluations for 5g new technologies provides important performance references for the 5g technology filtering and future standardizations students focused on telecommunications electronic engineering computer science or other related disciplines will find this book useful as a secondary text researchers and professionals working within these related fields will also find this book useful as a reference

this book presents a remarkable collection of chapters covering a wide range of topics in the areas of computer vision both from theoretical and application perspectives it gathers the proceedings of the computer vision conference cvc 2019 held in las vegas usa from may 2 to 3 2019 the conference attracted a total of 371 submissions from pioneering researchers scientists industrial engineers and students all around the world these submissions underwent a double blind peer review process after which 118 including 7 poster papers were selected for inclusion in these proceedings the book s goal is to reflect the intellectual breadth and depth of current research on computer vision from classical to intelligent scope accordingly its respective chapters address state of the art intelligent methods and techniques for solving real world problems while also outlining future research directions topic areas covered include machine vision and learning data science image processing deep learning and computer vision applications

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