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Mobile Applications Development with Android
Meikang Qiu 2016-10-14
Mobile Applications Development with Android: Technologies and Algorithms presents advanced techniques for

mobile app development, and addresses recent developments in mobile technologies and wireless networks. The book covers advanced algorithms, embedded systems, novel mobile app architecture, and

mobile cloud computing paradigms. Divided into three sections, the book explores three major dimensions in the current mobile app development domain. The first section describes mobile app design and development skills, including a quick start on using Java to run an Android application on a real phone. It also introduces 2D graphics and UI design, as well as multimedia in Android mobile apps. The second part of the book delves into advanced mobile app optimization, including an overview of mobile embedded systems and architecture. Data storage in Android, mobile optimization by dynamic programming, and mobile optimization by loop scheduling are also covered. The last section of the book looks at emerging technologies, including mobile cloud computing,

advanced techniques using Big Data, and mobile Big Data storage. About the Authors Meikang Qiu is an Associate Professor of Computer Science at Pace University, and an adjunct professor at Columbia University. He is an IEEE/ACM Senior Member, as well as Chair of the IEEE STC (Special Technical Community) on Smart Computing. He is an Associate Editor of a dozen of journals including IEEE Transactions on Computers and IEEE Transactions on Cloud Computing. He has published 320+ peer-reviewed journal/conference papers and won 10+ Best Paper Awards. Wenyun Dai is pursuing his PhD at Pace University. His research interests include high performance computing, mobile data privacy, resource management optimization,

cloud computing, and mobile networking. His paper about mobile app privacy has been published in IEEE Transactions on Computers. Keke Gai is pursuing his PhD at Pace University. He has published over 60 peer-reviewed journal or conference papers, and has received three IEEE Best Paper Awards. His research interests include cloud computing, cyber security, combinatorial optimization, business process modeling, enterprise architecture, and Internet computing.

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2021 IEEE International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience and Nanotechnology (5NANO)
IEEE Staff 2021-04-29
The 5NANO2021 International Conference is going to be dynamic

and informative as it provides the premier interdisciplinary forum for researchers, practitioners and educators to present and discuss the most recent innovations, trends, practical challenges encountered and the solutions adopted in the field of Nanotechnology
Smart Computing and Communication Meikang Qiu 2018-01-17 This book constitutes the refereed proceedings of the Second International Conference on Smart Computing and Communications, SmartCom 2017, held in Shenzhen, China, in December 2017. The 43 papers presented in this volume were carefully reviewed and selected from 116 submissions. They deal with topics from smart data to smart communications, smart cloud computing and smart security.
Advances in Decision

Sciences, Image Processing, Security and Computer Vision Suresh Chandra Satapathy
2019-07-12 This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22–23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are useful

to postgraduate students, researchers, academics and industry engineers working in the respective fields. Volume 1 presents papers on the theme “Advances in Decision Sciences, Image Processing, Security and Computer Vision – International Conference on Emerging Trends in Engineering (ICETE)”. It includes state-of-the-art technical contributions in the area of biomedical and computer science engineering, discussing sustainable developments in the field, such as instrumentation and innovation, signal and image processing, Internet of Things, cryptography and network security, data mining and machine learning.
2021 International Conference on Computer and Information Sciences (ICCOINS) IEEE Staff
2021-07-13 ICCOINS 2020

aims to discover the sustainability impact and challenges of Industry 4.0 with its main pillars such as the Internet of Things, big data analytics, cyber physical systems and cloud computing on the development of digital technologies and solutions for sustainable future

2019 Third International Conference on I SMAC (IoT in Social, Mobile, Analytics and Cloud) (I SMAC) IEEE Staff
2019-12-12 Third International conference on I SMAC (IoT in Social, Mobile, Analytics and Cloud) (I SMAC 2019) is being organized on 12-14, December, 2019 by SCAD Institute of Technology at Palladam, India I SMAC will provide an outstanding international forum for sharing knowledge and results in all future fields of Internet of

Things in Social, Mobile, Analytics and Cloud I SMAC provides quality key experts who provide an opportunity in bringing up innovative ideas Recent updates in the in the field of IoT will be a platform for the upcoming researchers The conference will be Complete, Concise, Clear and Cohesive in terms of research related to IoT Both academic world and industries are invited to present their papers dealing with state of art research and future developments

Detection of Intrusions and Malware, and Vulnerability Assessment
Clémentine Maurice
2020-07-07 This book constitutes the proceedings of the 17th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2020, held in Lisbon,

Portugal, in June 2020.* The 13 full papers presented in this volume were carefully reviewed and selected from 45 submissions. The contributions were organized in topical sections named: vulnerability discovery and analysis; attacks; web security; and detection and containment. □*The conference was held virtually due to the COVID-19 pandemic.

Emerging Communication Technologies Based on Wireless Sensor Networks

Mubashir Husain Rehmani
2016-04-05 Emerging Communication Technologies Based on Wireless Sensor Networks: Current Research and Future Applications fills a gap in the existing literature by combining a plethora of WSN-based emerging technologies into a single source so that researchers can

form opinions regarding these technologies. It presents different types of emerging communication technologies based on WSNs and describes how wireless sensor networks can be integrated with other communication technologies. It covers many of the new techniques and demonstrates the application of WSNs. The book's 14 chapters are divided into four parts. The first part covers the basics of wireless sensor networks and their principal working methods. The authors then move on to discuss different types of WSNs, characteristics of different types of emerging technologies based on WSNs, renewable energy sources, battery replenishment strategies, and application-specific energy challenges of WSNs. The second part is

dedicated to issues related to wireless body area networks (WBANs). It discusses wearable WSNs and their applications, standards, and research trends. The authors also discuss routing schemes devised for WBANs and thermal-aware routing protocols for WBANs. The third part focuses on different emerging communication technologies based on WSNs, including electromagnetic wireless nanosensor networks, WSNs in the IoT, management of WSNs through satellite networks, WSNs in smart homes, and cognitive radio technology in conjunction with WSNs. The last part of the book covers topics generally related to typical WSNs, including energy-efficient data collection in WSNs, key distribution mechanisms in WSNs, distributed

data gathering algorithms for mobile WSNs, and finally, a novel mobility scheme for WSNs that supports IPv6.

2020 International Conference on Intelligent Engineering and Management (ICIEM)

IEEE Staff 2020-06-17
Amity University London Campus will be conducting International Conference on Intelligent Engineering and Management We will like to bring together the scholars, scientists and industrialists from all across the world to the wide spectrum of engineering fields to a common platform and achieve the following To present the ongoing researches in different fields and hence to foster research relations between the Universities and the industry Give participants a review of the latest and upcoming

trends in the next few years Exposing the audience to the need for more development and research for innovation Provide the delegates to share their new ideas and the application experiences face to face

Advanced Machine Learning Technologies and Applications Aboul Ella Hassanien
2014-11-04 This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems

for cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets.

Model Predictive Control of Wind Energy Conversion Systems

Venkata Yaramasu
2016-12-19 Model Predictive Control of Wind Energy Conversion Systems addresses the predicative control strategy that has emerged as a promising digital control tool within the field of power electronics, variable-speed motor drives, and energy conversion systems. The authors provide a

comprehensive analysis on the model predictive control of power converters employed in a wide variety of variable-speed wind energy conversion systems (WECS). The contents of this book includes an overview of wind energy system configurations, power converters for variable-speed WECS, digital control techniques, MPC, modeling of power converters and wind generators for MPC design. Other topics include the mapping of continuous-time models to discrete-time models by various exact, approximate, and quasi-exact discretization methods, modeling and control of wind turbine grid-side two-level and multilevel voltage source converters. The authors also focus on the MPC of several power converter configurations for full variable-speed

permanent magnet synchronous generator based WECS, squirrel-cage induction generator based WECS, and semi-variable-speed doubly fed induction generator based WECS. Furthermore, this book: Analyzes a wide variety of practical WECS, illustrating important concepts with case studies, simulations, and experimental results Provides a step-by-step design procedure for the development of predictive control schemes for various WECS configurations Describes continuous- and discrete-time modeling of wind generators and power converters, weighting factor selection, discretization methods, and extrapolation techniques Presents useful material for other power electronic applications such as variable-speed motor

drives, power quality conditioners, electric vehicles, photovoltaic energy systems, distributed generation, and high-voltage direct current transmission. Explores S-Function Builder programming in MATLAB environment to implement various MPC strategies through the companion website Reflecting the latest technologies in the field, Model Predictive Control of Wind Energy Conversion Systems is a valuable reference for academic researchers, practicing engineers, and other professionals. It can also be used as a textbook for graduate-level and advanced undergraduate courses. Machine Learning for Future Wireless Communications Fa-Long Luo 2020-02-10 A comprehensive review to the theory, application and research of machine learning for future

wireless communications In one single volume, Machine Learning for Future Wireless Communications provides a comprehensive and highly accessible treatment to the theory, applications and current research developments to the technology aspects related to machine learning for wireless communications and networks. The technology development of machine learning for wireless communications has grown explosively and is one of the biggest trends in related academic, research and industry communities. Deep neural networks-based machine learning technology is a promising tool to attack the big challenge in wireless communications and networks imposed by the increasing demands in terms of capacity, coverage, latency, efficiency flexibility, compatibility, quality

of experience and silicon convergence. The author – a noted expert on the topic – covers a wide range of topics including system architecture and optimization, physical-layer and cross-layer processing, air interface and protocol design, beamforming and antenna configuration, network coding and slicing, cell acquisition and handover, scheduling and rate adaptation, radio access control, smart proactive caching and adaptive resource allocations. Uniquely organized into three categories: Spectrum Intelligence, Transmission Intelligence and Network Intelligence, this important resource: Offers a comprehensive review of the theory, applications and current developments of machine learning for wireless

communications and networks Covers a range of topics from architecture and optimization to adaptive resource allocations Reviews state-of-the-art machine learning based solutions for network coverage Includes an overview of the applications of machine learning algorithms in future wireless networks Explores flexible backhaul and front-haul, cross-layer optimization and coding, full-duplex radio, digital front-end (DFE) and radio-frequency (RF) processing Written for professional engineers, researchers, scientists, manufacturers, network operators, software developers and graduate students, Machine Learning for Future Wireless Communications presents in 21 chapters a comprehensive review of the topic authored by an expert in the field.

ICT Systems Security and Privacy Protection

Sabrina De Capitani di Vimercati 2017-05-17

This book constitutes the refereed proceedings of the 32nd IFIP TC 11 International Conference on ICT Systems Security and Privacy Protection, SEC 2017, held in Rome, Italy, in May 2017. The 38 revised full papers presented were carefully reviewed and selected from 199 submissions. The papers are organized in the following topical sections: network security and cyber attacks; security and privacy in social applications and cyber attacks defense; private queries and aggregations; operating systems and firmware security; user authentication and policies; applied cryptography and voting schemes; software security and privacy; privacy; and digital

signature, risk management, and code reuse attacks.

2019 International Conference on Computer and Information Sciences (ICIS) 2019

2020 IEEE 8th

International Conference on Computer Science and Network Technology (ICCSNT) IEEE Staff

2020-11-20 2020 IEEE 8th International Conference on Computer Science and Network Technology (ICCSNT2020) will be held during November 13 15, 2020 in Dalian, China It is the eighth forum for the presentation of new advances and research results in a wide variety of scientific areas with a common interest in improving Future Computer Science, Network Technology and Communication related techniques ICCSNT2011 (Dec 24 26, 2011), ICCSNT2012 (Dec 29 31, 2012), ICCSNT2013 (Oct

12 14, 2013), ICCSNT2015 (Dec 20 22, 2015), ICCSNT2016 (Dec 10 11, 2016), ICCSNT2017 (Oct 21 22, 2017) and ICCSNT2019 (Oct 19 20, 2019) were successfully held respectively and all the accepted more than 1700 papers from ICCSNT conferences have been included in IEEE Xplore and indexed by EI Compendex

2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus) IEEE Staff 2021-01-26 The conference will cover a broad area of electrical and electronic engineering, computer science and engineering, biomedical engineering, industrial management It is targeted on results of research carried out by young researchers (Master and PhD students, engineers)
2016 International

Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) IEEE Staff 2016-03-03 The aim of the conference is to bring Students, Engineers, Researchers and Scientists to single platform for share their knowledge and ideas in the recent trends in the field of Engineering, Science and Technology
Android Essentials Chris Haseman 2009-04-24 Android Essentials is a no-frills, no-nonsense, code-centric run through the guts of application development on Google's Mobile OS. This book uses the development of a sample application to work through topics, focusing on giving developers the essential tools and examples required to make viable commercial applications work. Covering the entirety of the Android catalog in less than 150 pages is simply

impossible. Instead, this book focuses on just four main topics: the application life cycle and OS integration, user interface, location-based services, and networking. Thorough, complete, and useful work on the nuts and bolts of application development in Android. Example driven and practically minded. A tool for hobbyists and professionals who want to create production-quality applications.

Malware Detection Mihai Christodorescu
2007-03-06 This book captures the state of the art research in the area of malicious code detection, prevention and mitigation. It contains cutting-edge behavior-based techniques to analyze and detect obfuscated malware. The book analyzes current trends

in malware activity online, including botnets and malicious code for profit, and it proposes effective models for detection and prevention of attacks using. Furthermore, the book introduces novel techniques for creating services that protect their own integrity and safety, plus the data they manage.

Advances in Distributed Computing and Machine Learning Asis Kumar Tripathy
2020-06-11 This book presents recent advances in the field of distributed computing and machine learning, along with cutting-edge research in the field of Internet of Things (IoT) and blockchain in distributed environments. It features selected high-quality research papers from the First International Conference on Advances in Distributed Computing

and Machine Learning (ICADCML 2020), organized by the School of Information Technology and Engineering, VIT, Vellore, India, and held on 30–31 January 2020. *Research Anthology on Securing Mobile Technologies and Applications* Management Association, Information Resources 2021-02-05

Mobile technologies have become a staple in society for their accessibility and diverse range of applications that are continually growing and advancing. Users are increasingly using these devices for activities beyond simple communication including gaming and e-commerce and to access confidential information including banking accounts and medical records. While mobile devices are being so widely used and accepted

in daily life, and subsequently housing more and more personal data, it is evident that the security of these devices is paramount. As mobile applications now create easy access to personal information, they can incorporate location tracking services, and data collection can happen discreetly behind the scenes. Hence, there needs to be more security and privacy measures enacted to ensure that mobile technologies can be used safely. Advancements in trust and privacy, defensive strategies, and steps for securing the device are important foci as mobile technologies are highly popular and rapidly developing. The *Research Anthology on Securing Mobile Technologies and Applications* discusses the strategies, methods, and technologies being

employed for security amongst mobile devices and applications. This comprehensive book explores the security support that needs to be required on mobile devices to avoid application damage, hacking, security breaches and attacks, or unauthorized accesses to personal data. The chapters cover the latest technologies that are being used such as cryptography, verification systems, security policies and contracts, and general network security procedures along with a look into cybercrime and forensics. This book is essential for software engineers, app developers, computer scientists, security and IT professionals, practitioners, stakeholders, researchers, academicians, and students interested in

how mobile technologies and applications are implementing security protocols and tactics amongst devices.

Corporate Cybersecurity

John Jackson 2021-12-13

An insider's guide showing companies how to spot and remedy vulnerabilities in their security programs A bug bounty program is offered by organizations for people to receive recognition and compensation for reporting bugs, especially those pertaining to security exploits and vulnerabilities.

Corporate Cybersecurity gives cyber and application security engineers (who may have little or no experience with a bounty program) a hands-on guide for creating or managing an effective bug bounty program. Written by a cyber security expert, the book is filled with

the information, guidelines, and tools that engineers can adopt to sharpen their skills and become knowledgeable in researching, configuring, and managing bug bounty programs. This book addresses the technical aspect of tooling and managing a bug bounty program and discusses common issues that engineers may run into on a daily basis. The author includes information on the often-overlooked communication and follow-through approaches of effective management. Corporate Cybersecurity provides a much-needed resource on how companies identify and solve weaknesses in their security program. This important book: Contains a much-needed guide aimed at cyber and application security engineers Presents a unique defensive guide

for understanding and resolving security vulnerabilities Encourages research, configuring, and managing programs from the corporate perspective Topics covered include bug bounty overview; program set-up; vulnerability reports and disclosure; development and application Security Collaboration; understanding safe harbor and SLA Written for professionals working in the application and cyber security arena, Corporate Cybersecurity offers a comprehensive resource for building and maintaining an effective bug bounty program.

Electric Power System Basics for the Nonelectrical

Professional Steven W.

Blume 2016-11-15 The

second edition of Steven

W. Blume's bestseller

provides a comprehensive treatment of power technology for the non-electrical engineer working in the electric power industry. This book aims to give non-electrical professionals a fundamental understanding of large interconnected electrical power systems, better known as the "Power Grid", with regard to terminology, electrical concepts, design considerations, construction practices, industry standards, control room operations for both normal and emergency conditions, maintenance, consumption, telecommunications and safety. The text begins with an overview of the terminology and basic electrical concepts commonly used in the industry then it examines the generation, transmission and distribution of power.

Other topics discussed include energy management, conservation of electrical energy, consumption characteristics and regulatory aspects to help readers understand modern electric power systems. This second edition features: New sections on renewable energy, regulatory changes, new measures to improve system reliability, and smart technologies used in the power grid system. Updated practical examples, photographs, drawing, and illustrations to help the reader gain a better understanding of the material. "Optional supplementary reading" sections within most chapters to elaborate on certain concepts by providing additional detail or background. Electric Power System Basics for the Nonelectrical

Professional, Second Edition, gives business professionals in the industry and entry-level engineers a strong introduction to power technology in non-technical terms. Steve W. Blume is Founder of Applied Professional Training, Inc., APT Global, LLC, APT College, LLC and APT Corporate Training Services, LLC, USA. Steve is a registered professional engineer and certified NERC Reliability Coordinator with a Master's degree in Electrical Engineering specializing in power and a Bachelor's degree specializing in Telecommunications. He has more than 25 years' experience teaching electric power system basics to non-electrical professionals. Steve's engineering and operations experience includes generation,

transmission, distribution, and electrical safety. He is an active senior member in IEEE and has published two books in power systems through IEEE and Wiley. 2019 7th International Conference on Smart Computing and Communications (ICSCC) IEEE Staff 2019-06-28 The conference will bring together experts from the Smart computing and Communication systems community to discuss the timely issue of smart computing and low energy system design This will provide a forum for sharing insights, experiences and interaction on various aspects of evolving technologies and patterns related to Computer Science, Information Technology and Electronics The conference provides a platform for not only to the researchers from

Asia but also from other continents across the globe, making this conference more international and attractive for participants

Mobile Web and Intelligent Information Systems

Muhammad Younas 2015 This book constitutes the refereed proceedings of the 12th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2015, held in Rome, Italy, in August 2015. The 17 full papers and 3 short papers presented were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections such as mobile services and applications; usability and visualization; mobile networks and applications; mobile data services; smart phones and mobile commerce applications.

Position, Navigation, and Timing Technologies in the 21st Century Y.

Jade Morton 2020-12-17

Covers the latest developments in PNT technologies, including integrated satellite navigation, sensor systems, and civil applications Featuring sixty-four chapters that are divided into six parts, this two-volume work provides comprehensive coverage of the state-of-the-art in satellite-based position, navigation, and timing (PNT) technologies and civilian applications. It also examines alternative navigation technologies based on other signals-of-opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications. Volume 1 of Position, Navigation, and Timing

Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications contains three parts and focuses on the satellite navigation systems, technologies, and engineering and scientific applications. It starts with a historical perspective of GPS development and other related PNT development. Current global and regional navigation satellite systems (GNSS and RNSS), their inter-operability, signal quality monitoring, satellite orbit and time synchronization, and ground- and satellite-based augmentation systems are examined. Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath-rich urban environment, in handling spoofing and

interference, and in ensuring PNT integrity are addressed. A section on satellite navigation for engineering and scientific applications finishes off the volume. Volume 2 of Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications. It looks at PNT using various radio signals-of-opportunity, atomic clock, optical, laser, magnetic field, celestial, MEMS and inertial sensors, as well as the concept of navigation from Low-Earth Orbiting (LEO) satellites. GNSS-INS integration, neuroscience of

navigation, and animal navigation are also covered. The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping, precision agriculture, wearable systems, automated driving, train control, commercial unmanned aircraft systems, aviation, and navigation in the unique Arctic environment. In addition, this text: Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors, techniques, and applications Illustrates interconnecting relationships between various types of technologies in order to

assure more protected, tough, and accurate PNT Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications will appeal to all industry professionals, researchers, and academics involved with the science, engineering, and applications of position, navigation, and timing technologies. pnt21book.com Internet of Things and Its Applications Keshav Dahal 2022-02-19 This volume constitutes selected papers presented at the International Conference on IoT and its Applications 2020. The research papers presented were carefully reviewed and selected from several initial submissions on the topics - the Internet of

Things (IoT) and its applications such as smart cities, smart devices, agriculture, transportation and logistics, healthcare, etc. The book contains peer-reviewed chapters written by leading international scholars from around the world. This book will appeal to students, practitioners, industry professionals, and researchers working in the field of IoT and its integration with other technologies to develop comprehensive solutions to real-life problems.

2019 International Conference on Communication and Signal Processing (ICCSP) IEEE Staff 2019-04-04 The idea of the conference is to bring together the Scientists, Scholars, Engineers, Industrialists, and Students from in and around the world to present the on going

research activities and hence to foster research relations between universities and industries This conference provides opportunities for the delegates to exchange new ideas, applications, and experiences, to establish research relations and to find global partners for future collaboration Social Chemistry Marissa King 2022-01-04 "One of the most interesting and useful books ever written on networking."—Adam Grant Social Chemistry will utterly transform the way you think about "networking." Understanding the contours of your social network can dramatically enhance personal relationships, work life, and even your global impact. Are you an Expansionist, a Broker, or a Convener? The answer matters more

than you think. . . . Yale professor Marissa King shows how anyone can build more meaningful and productive relationships based on insights from neuroscience, psychology, and network analytics. Conventional wisdom says it's the size of your network that matters, but social science research has proven there is more to it. King explains that the quality and structure of our relationships has the greatest impact on our personal and professional lives. As she illustrates, there are three basic types of networks, so readers can see the role they are already playing: Expansionist, Broker, or Convener. This network decoder enables readers to own their network style and modify it for better alignment with their life plans and

values. High-quality connections in your social network strongly predict cognitive functioning, emotional resilience, and satisfaction at work. A well-structured network is likely to boost the quality of your ideas, as well as your pay. Beyond the office, social connections are the lifeblood of our health and happiness. The compiled results from dozens of previous studies found that our social relationships have an effect on our likelihood of dying prematurely—equivalent to obesity or smoking. Rich stories of Expansionists like Vernon Jordan, Brokers like Yo-Yo Ma, and Conveners like Anna Wintour, as well as personal experiences from King's own world of connections, inform this warm, engaging, revelatory investigation

into some of the most consequential decisions we can make about the trajectory of our lives.

2014 Recent Advances in Engineering and Computational Sciences (RAECS) IEEE Staff

2014-03-06 "This International Conference aims to bring together researchers, engineers and practitioners from academia and industry working in all major areas and interdisciplinary areas of engineering and computational sciences to share exchange their experience "

Wireless Communications

Andreas F. Molisch
2012-02-06 "Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, Wireless Communications. The second edition, which includes a wealth of new material on important topics,

ensures the role of the text as the key resource for every student, researcher, and practitioner in the field." –Professor Moe Win, MIT, USA Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, Wireless Communications, Second Edition provides an authoritative overview of the principles and applications of mobile communication technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user

detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems. Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject. Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new sections on multi-user MIMO, 802.11n, and

information theory. Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

2019 8th International Conference System Modeling and Advancement in Research Trends (SMART) IEEE Staff 2019-11-22 College of Computing Sciences & Information Technology, Teerthanker Mahaveer University, Moradabad, is organizing its Eight International Conference on System Modeling & Advancement in Research Trends in technical co sponsorship with IEEE Uttar Pradesh Section, on 22nd 23th November, 2019 The 8th International Conference on System Modeling & Advancement in Research Trends (SMART2019) will bring together leading

researchers, engineers and scientists in the domain of interest from around the world by providing a platform to present new advances and research results in the fields of Computational Sciences, system modeling and computer science Moradabad is a city in Uttar Pradesh state of India

Channel Equalization for Wireless Communications

Gregory E. Bottomley
2012-01-03 The most thorough, up-to-date reference on channelequalization—from basic concepts to complex modelingtechniques In today's instant-access society, a high premium is placed oninformation that can be stored and communicated effectively. As aresult, storage densities and communications rates are being pushedto capacity, causing information symbols to interfere

with oneanother. To help unclog pathways for the clearer conveyance ofinformation, this book offers in-depth discussion of thesignificant contributions and future adaptability of channelequalization and a set of approaches for solving the problem ofintersymbol interference (ISI). Chapter explorations in ChannelEqualization include: Channel equalization topics presented with incremental learningmethodology—from the very fundamental concept to moreadvanced mathematical knowledge Coverage of technology used in second-, third- andfourth-generation cellular communication systems A set of homework problems that reinforce concepts discussed inthe book Tutorial explanations of recent developments

currently captured in IEEE technical journals. Unlike existing digital communications books that devote cursory attention to channel equalization, this invaluable guide addresses a crucial need by focusing solely on the background, current state, and future direction of this increasingly important technology. A unique mix of basic concepts and complex frameworks for delivering digitized data make Channel Equalization a valuable reference for all practicing wireless communication engineers and students dealing with the pressing demands of the information age.

Advances in Computing and Communications, Part II

Ajith Abraham
2011-07-08 This volume is the second part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which

constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video systems; parallel and distributed algorithms; security, trust and privacy.

Proceedings of the 7th International Conference on Kansei Engineering and Emotion Research 2018
Anitawati Mohd Lokman
2018-03-13 The

proceedings gather a selection of refereed papers presented at the 7th International Conference on Kansei Engineering and Emotion Research 2018 (KEER 2018), which was held in Kuching, Malaysia from 19 to 22 March 2018. The contributions address the latest advances in and innovative applications of Kansei Engineering and Emotion Research. The subjects include: Kansei, Emotion and Games Kansei, Emotion and Computing Kansei, Emotion and Wellbeing / Quality of Life Kansei, Emotion and Design Kansei, Emotion and Health / Ergonomics Kansei, Emotion and Multidisciplinary Fields Kansei, Emotion and Culture Kansei, Emotion and Social computing Kansei, Emotion and Evaluation Kansei, Emotion and User Experience The book offers a valuable

resource for all graduate students, experienced researchers and industrial practitioners interested in the fields of user experience/usability, engineering design, human factors, quality management, product development and design.

Operating System

Security Trent Jaeger
2022-05-31 Operating systems provide the fundamental mechanisms for securing computer processing. Since the 1960s, operating systems designers have explored how to build "secure" operating systems - operating systems whose mechanisms protect the system against a motivated adversary. Recently, the importance of ensuring such security has become a mainstream issue for all operating systems. In this book, we examine past research that outlines the

requirements for a secure operating system and research that implements example systems that aim for such requirements. For system designs that aimed to satisfy these requirements, we see that the complexity of software systems often results in implementation challenges that we are still exploring to this day. However, if a system design does not aim for achieving the secure operating system requirements, then its security features fail to protect the system in a myriad of ways. We also study systems that have been retrofit with secure operating system features after an initial deployment. In all cases, the conflict between function on one hand and security on the other leads to difficult choices and the potential for unwise

compromises. From this book, we hope that systems designers and implementors will learn the requirements for operating systems that effectively enforce security and will better understand how to manage the balance between function and security. Table of Contents: Introduction / Access Control Fundamentals / Multics / Security in Ordinary Operating Systems / Verifiable Security Goals / Security Kernels / Securing Commercial Operating Systems / Case Study: Solaris Trusted Extensions / Case Study: Building a Secure Operating System for Linux / Secure Capability Systems / Secure Virtual Machine Systems / System Assurance NAND Flash Memory Technologies Seiichi Aritome 2015-12-01 Offers a comprehensive

overview of NAND flash memories, with insights into NAND history, technology, challenges, evolutions, and perspectives Describes new program disturb issues, data retention, power consumption, and possible solutions for the challenges of 3D NAND flash memory

Written by an authority in NAND flash memory technology, with over 25 years' experience

2017 International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)

IEEE Staff 2017-02-21
ICIMIA 2017 will provide an outstanding international forum for sharing knowledge and results in all fields of engineering and Technology ICIMIA provides quality key experts who provide an opportunity in bringing up innovative ideas Recent updates in the in the field of technology

will be a platform for the upcoming researchers The conference will be Complete, Concise, Clear and Cohesive in terms of research related to Innovative Mechanisms for Industrial needs Design for Embedded Image Processing on FPGAs Donald G. Bailey 2011-06-13 Dr Donald Bailey starts with introductory material considering the problem of embedded image processing, and how some of the issues may be solved using parallel hardware solutions. Field programmable gate arrays (FPGAs) are introduced as a technology that provides flexible, fine-grained hardware that can readily exploit parallelism within many image processing algorithms. A brief review of FPGA programming languages provides the link between a software

mindset normally associated with image processing algorithms, and the hardware mindset required for efficient utilization of a parallel hardware design. The design process for implementing an image processing algorithm on an FPGA is compared with that for a conventional software implementation, with the key differences highlighted. Particular attention is given to the techniques for mapping an algorithm onto an FPGA implementation, considering timing, memory bandwidth and resource constraints, and efficient hardware computational techniques. Extensive coverage is given of a range of low and intermediate level image processing operations, discussing efficient implementations and how these may vary according

to the application. The techniques are illustrated with several example applications or case studies from projects or applications he has been involved with. Issues such as interfacing between the FPGA and peripheral devices are covered briefly, as is designing the system in such a way that it can be more readily debugged and tuned. Provides a bridge between algorithms and hardware Demonstrates how to avoid many of the potential pitfalls Offers practical recommendations and solutions Illustrates several real-world applications and case studies Allows those with software backgrounds to understand efficient hardware implementation Design for Embedded Image Processing on FPGAs is ideal for researchers and

engineers in the vision or image processing industry, who are looking at smart sensors, machine vision, and robotic vision, as well as FPGA developers and application engineers. The book can also be used by graduate students studying imaging systems, computer engineering, digital design, circuit design, or computer science. It can also be used as supplementary text for courses in advanced digital design, algorithm and hardware implementation, and digital signal processing and applications. Companion website for the book: www.wiley.com/go/bailey/fpga

Electrical Energy Conversion and Transport
George G. Karady
2013-05-03 Designed to

support interactive teaching and computer assisted self-learning, this second edition of *Electrical Energy Conversion and Transport* is thoroughly updated to address the recent environmental effects of electric power generation and transmission, which have become more important together with the deregulation of the industry. New content explores different power generation methods, including renewable energy generation (solar, wind, fuel cell) and includes new sections that discuss the upcoming Smart Grid and the distributed power generation using renewable energy generation, making the text essential reading material for students and practicing engineers.