

# Communication Networks

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**Wireless Communications Networks for the Smart Grid** Quang-Dung Ho  
2014-09-19 This brief presents a comprehensive review of the network architecture and communication technologies of the smart grid communication network (SGCN). It then studies the strengths,

weaknesses and applications of two promising wireless mesh routing protocols that could be used to implement the SGCN. Packet transmission reliability, latency and robustness of these two protocols are evaluated and compared by simulations in various practical SGCN

scenarios. Finally, technical challenges and open research opportunities of the SGCN are addressed. Wireless Communications Networks for Smart Grid provides communication network architects and engineers with valuable proven suggestions to successfully implement the SGCN. Advanced-level students studying computer science or electrical engineering will also find the content helpful.

**Active Networks** Hiroshi Yasuda 2003-06-29 This book constitutes the refereed proceedings of the Second International Working Conference on Active Networks, IWAN 200, held in Tokyo, Japan in October 2000. The 30 revised full papers presented were carefully reviewed and selected from numerous submissions. The book offers topical sections on architecture,

multicast, quality of service (QoS), applications, management, service architecture, and mobile IP.

**Communication Networks** Alberto Leon-Garcia 2010  
**Communication Challenges and Solutions in the Smart Grid** Fayçal Bouhafis 2014-10-31 This SpringerBrief discusses the rise of the smart grid from the perspective of computing and communications. It explains how current and next-generation network technology and methodologies help recognize the potential that the smart grid initiative promises. Chapters provide context on the smart grid before exploring specific challenges related to communication control and energy management. Topics include control in heterogeneous power supply, solutions for backhaul and wide area

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networks, home energy management systems, and technologies for smart energy management systems. Designed for researchers and professionals working on the smart grid, *Communication Challenges and Solutions in the Smart Grid* offers context and applications for the common issues of this developing technology. Advanced-level students interested in networking and communications engineering will also find the brief valuable.

**The Computer Engineering Handbook** Vojin G. Oklobdzija 2001-12-26

There is arguably no field in greater need of a comprehensive handbook than computer engineering. The unparalleled rate of technological advancement, the explosion of computer applications, and the now-in-progress

migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own

*Management Enabling the Future Internet for Changing Business and New Computing Services* Choong Seon Hong 2009-09-19

We are delighted to present the proceedings of the 12th Asia-Pacific Network Operations and Management Symposium (APNOMS 2009), which was held in Jeju, Korea, during September 23–25, 2009. Recently, various convergences in wired and wireless networks, and convergence of telecommunications and broadcastings, are taking place for ubiquitous multimedia service provisioning. For example, broadband IP/MPLS wired networks are actively converged with IEEE 802.11e

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wireless LAN, IEEE 802.16 Wireless MAN, 3G/4G wireless cellular networks, and direct multimedia broadcast (DMB) networks. For efficient support of service provisioning for ubiquitous multimedia services on the broadband convergence networks, well-designed and implemented network operations and management functions with Q-guaranteed traffic engineering are essential. The converged network will open the way for a new world with emerging new businesses and computing services. The Organizing Committee (OC) selected "Management Enabling the Future Internet for Changing Business and New Computing Services" as the timely theme of APNOMS 2009. Contributions from academia, industry and research institutions

met these challenges with 173 paper submissions, from which 41 high-quality papers (23.7% of the submissions) were selected for technical sessions as full papers, and 32 papers were selected as short papers. In addition, we had nine papers in innovation sessions for on-going research. Diverse topics were covered, including Traffic Trace Engineering, Configuration and Fault Management, Management of IP-Based Networks, Autonomous and Distributed Control, Sensor Network and P2P Management, Converged Networks and Traffic Engineering, SLA and QoS Management, Active and Security Management, Wireless and Mobile Network Management, and Security Management. *Delivery and Adoption of Cloud Computing Services in Contemporary Organizations Chang,*

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Victor 2015-03-31 The ubiquity of technology has not only brought the need for computer knowledge to every aspect of the modern business world; it has also increased our need to safely store the data we are now creating at a rate never experienced before. *Delivery and Adoption of Cloud Computing Services in Contemporary Organizations* brings together the best practices for storing massive amounts of data. Highlighting ways cloud services can work effectively in production and in real time, this book is an essential reference source for professionals and academics of various disciplines, such as computer science, consulting, information technology, information and communication sciences, healthcare, and finance.

**Handbook of Biomedical Telemetry** Konstantina S. Nikita 2014-08-25 A must-have compendium on biomedical telemetry for all biomedical professional engineers, researchers, and graduate students in the field *Handbook of Biomedical Telemetry* describes the main components of a typical biomedical telemetry system, as well as its technical challenges. Written by a diverse group of experts in the field, it is filled with overviews, highly-detailed scientific analyses, and example applications of biomedical telemetry. The book also addresses technologies for biomedical sensing and design of biomedical telemetry devices with special emphasis on powering/integration issues and materials for biomedical telemetry applications. **Handbook**

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of Biomedical Telemetry: Describes the main components of a typical biomedical telemetry system, along with the technical challenges. Discusses issues of spectrum regulations, standards, and interoperability—while major technical challenges related to advanced materials, miniaturization, and biocompatibility issues are also included. Covers body area electromagnetics, inductive coupling, antennas for biomedical telemetry, intra-body communications, non-RF communication links for biomedical telemetry (optical biotelemetry), as well as safety issues, human phantoms, and exposure assessment to high-frequency biotelemetry fields. Presents biosensor network topologies and standards; context-aware sensing and multi-sensor

fusion; security and privacy issues in biomedical telemetry; and the connection between biomedical telemetry and telemedicine. Introduces clinical applications of Body Sensor Networks (BSNs) in addition to selected examples of wearable, implantable, ingestible devices, stimulator and integrated mobile healthcare system paradigms for monitoring and therapeutic intervention. Covering biomedical telemetry devices, biosensor network topologies and standards, clinical applications, wearable and implantable devices, and the effects on the mobile healthcare system, this compendium is a must-have for professional engineers, researchers, and graduate students.

**Distributed Computer and Communication Networks**

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Vladimir M. Vishnevskiy  
2018-09-03 This book  
constitutes the refereed  
proceedings of the 21th  
International Conference  
on Distributed and  
Computer and  
Communication Networks,  
DCCN 2018, held in  
Moscow, Russia, in  
September 2018. The 50  
full papers and the 9  
short papers were  
carefully reviewed and  
selected from 168  
submissions. The papers  
cover the following  
topics: computer and  
communication networks  
architecture  
optimization; control in  
computer and  
communication networks;  
performance and QoS/QoE  
evaluation in wireless  
networks; analytical  
modeling and simulation  
of next-generation  
communications systems;  
queueing theory and  
reliability theory  
applications in computer  
networks; wireless 4G/5G  
networks, cm- and mm-

wave radio technologies;  
RFID technology and its  
application in  
intellectual  
transportation networks;  
Internet of Things,  
wearables, and  
applications of  
distributed information  
systems; probabilistic  
and statistical models  
in information systems;  
mathematical modeling of  
high-tech systems;  
mathematical modeling  
and control problems;  
distributed and cloud  
computing systems, big  
data analytics.

**Algorithms and Models  
for Network Data and  
Link Analysis**

François Fouss  
2016-07-12 A  
hands-on, entry-level  
guide to algorithms for  
extracting information  
about social and  
economic behavior from  
network data.

**Building Next-Generation  
Converged Networks**

Al-Sakib Khan Pathan  
2013-01-29 Supplying a  
comprehensive

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introduction to next-generation networks, Building Next-Generation Converged Networks: Theory and Practice strikes a balance between how and why things work and how to make them work. It compiles recent advancements along with basic issues from the wide range of fields related to next generation networks. Containing the co

### **Green Radio**

#### **Communication Networks**

Ekram Hossain 2012-07-05  
Presents state-of-the-art research on green radio communications and networking technology to researchers and professionals working in wireless communication.

#### **Wireless Communications Resource Management**

Byeong Gi Lee 2009-07-28  
Wireless technologies continue to evolve to address the insatiable demand for faster response times, larger

bandwidth, and reliable transmission. Yet as the industry moves toward the development of post 3G systems, engineers have consumed all the affordable physical layer technologies discovered to date. This has necessitated more intelligent and optimized utilization of available wireless resources. Wireless Communications Resource Management, Lee, Park, and Seo cover all aspects of this critical topic, from the preliminary concepts and mathematical tools to detailed descriptions of all the resource management techniques. Readers will be able to more effectively leverage limited spectrum and maximize device battery power, as well as address channel loss, shadowing, and multipath fading phenomena. Presents the latest resource

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allocation techniques for new and next generation air interface technologies Arms readers with the necessary fundamentals and mathematical tools Illustrates theoretical concepts in a concrete manner Gives detailed coverage on scheduling, power management, and MIMO techniques Written by an author team working in both academia and industry Wireless Communications Resource Management is geared for engineers in the wireless industry and graduate students specializing in wireless communications. Professionals in wireless service and device manufacturing industries will find the book to be a clear, up-to-date overview of the topic. Readers will benefit from a basic, undergraduate-level understanding of networks and

communications. Course instructors can access lecture materials at the companion website: ([www.wiley.com/go/bglee](http://www.wiley.com/go/bglee))

### **Enabling 5G Communication Systems to Support Vertical**

**Industries** Muhammad Ali Imran 2019-08-26 How 5G technology can support the demands of multiple vertical industries Recent advances in technology have created new vertical industries that are highly dependent on the availability and reliability of data between multiple locations. The 5G system, unlike previous generations, will be entirely data driven—addressing latency, resilience, connection density, coverage area, and other vertical industry criteria. Enabling 5G Communication Systems to Support Vertical

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Industries demonstrates how 5G communication systems can meet the needs unique to vertical industries for efficient, cost-effective delivery of service. Covering both theory and practice, this book explores solutions to problems in specific industrial sectors including smart transportation, smart agriculture, smart grid, environmental monitoring, and disaster management. The 5G communication system will have to provide customized solutions to accommodate each vertical industry's specific requirements. Whether an industry practitioner designing the next generation of wireless communications or a researcher needing to identify open issues and classify their research, this timely book: Covers the much-discussed

topics of supporting multiple vertical industries and new ICT challenges Addresses emerging issues and real-world problems surrounding 5G technology in wireless communication and networking Explores a comprehensive array of essential topics such as connected health, smart transport, smart manufacturing, and more Presents important topics in a clear, concise style suitable for new learners and professionals alike Includes contributions from experts and industry leaders, system diagrams, charts, tables, and examples Enabling 5G Communication Systems to Support Vertical Industries is a valuable resource telecom engineers industry professionals, researchers, professors, doctorate, and

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postgraduate students requiring up-to-date information on supporting vertical industries with 5G technology systems.

**Green Internet of Things for Smart Cities** Surjeet Dalal 2021-06-28 The bright future of green IoT will change our tomorrow environment to become healthier and green, with very high quality of service that is socially, environmentally, and economically sustainable. This book covers the most recent advances in IoT, it discusses Smart City implementation, and offers both quantitative and qualitative research. It focuses on greening things such as green communication and networking, green design and implementations, green IoT services and applications, energy saving strategies, integrated RFIDs and

sensor networks, mobility and network management, the cooperation of homogeneous and heterogeneous networks, smart objects, and green localization. This book with its wide range of related topics in IoT and Smart City, will be useful for graduate students, researchers, academicians, institutions, and professionals that are interested in exploring the areas of IoT and Smart City.

Communications, Navigation, Sensing and Services L. P. Ligthart 2013-03 During the last decade there was a shift from wireless and mobile communications technology, networks and applications towards integration of radio with other disciplines. Integration of navigation, sensing and services allow for entering new areas in

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which many requirements from individuals and organizations are satisfied. Potential applications are manifold. Developments for realizing these new application areas will cause a boost on new systems demonstrating the potentials of this integration approach. In this first book the fundamentals of this new approach on integrated communication, navigation, sensing and services (Conasense) will be elucidated. Furthermore, several applications illustrate some of the aims of Conasense. Two major areas have been selected

1. Quality of life
2. Intelligent Conasense architectures

Topics in the book on 'quality of life' include: Visionary plans on health, security, neurophysics, indoor and outdoor safeguarding: in all these areas new

Conasense technology and systems are essential. Topics in the book on intelligent Conasense architectures concern: a framework describing novelties in Conasense technology needed to realize the aimed improve in 'quality of life'. Breakthroughs on full integration of space-based and terrestrial communication and navigation systems with advanced high resolution sensing of the local environment supplemented with geographical information at regionals, national and international scales.

Traffic Engineering and QoS Optimization of Integrated Voice and Data Networks Gerald R. Ash 2006-11-03 This book describes, analyzes, and recommends traffic engineering (TE) and quality of service (QoS) optimization methods for integrated voice/data

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dynamic routing networks. These functions control a network's response to traffic demands and other stimuli, such as link failures or node failures. TE and QoS optimization is concerned with measurement, modeling, characterization, and control of network traffic, and the application of techniques to achieve specific performance objectives. The scope of the analysis and recommendations include dimensioning, call/flow and connection routing, QoS resource management, routing table management, dynamic transport routing, and operational requirements. Case studies are included which provide the reader with a concrete way into the technical details and highlight why and how to use the

techniques described in the book. Includes Case Studies of MPLS and GMPLS Network Optimization Presents state-of-the-art traffic engineering and quality of service optimization methods and illustrates the tradeoffs between the various methods discussed Contains practical Case Studies based on large-scale service provider implementations and architecture plans Written by a highly respected and well known active expert in traffic engineering and quality of service

**Energy-Aware Communications** Ralf Lehnert 2011-08-30 This book constitutes the refereed proceedings of the 17th EUNICE 2011 Workshop on energy-aware communications, held in Dresden, in September 2011. The proceedings comprise 16 full papers and 7 poster papers

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which are presented together with the abstracts of the 3 invited talks. The topics covered are: network architectures; ad-hoc and wireless networks; system simulation; network planning, optimization, and migration; traffic engineering; quality of experience; and energy efficient architectures.

**The Electrical Engineering Handbook** Wai Kai Chen 2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students. Encompassing 79 chapters, this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students. This text will most likely be the engineer's first choice in looking for a solution;

extensive, complete references to other sources are provided throughout. No other book has the breadth and depth of coverage available here. This is a must-have for all practitioners and students! The Electrical Engineer's Handbook provides the most up-to-date information in: Circuits and Networks, Electric Power Systems, Electronics, Computer-Aided Design and Optimization, VLSI Systems, Signal Processing, Digital Systems and Computer Engineering, Digital Communication and Communication Networks, Electromagnetics and Control and Systems. About the Editor-in-Chief... Wai-Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois.

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at Chicago. He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems. He was Editor-in-Chief of the IEEE Transactions on Circuits and Systems, Series I and II, President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor-in-Chief of the Journal of Circuits, Systems and Computers. He is the recipient of the Golden Jubilee Medal, the Education Award, and the Meritorious Service Award from the IEEE Circuits and Systems Society, and the Third Millennium Medal from the IEEE. Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science. \* 77 chapters encompass the entire field of electrical engineering.

\* THOUSANDS of valuable figures, tables, formulas, and definitions. \* Extensive bibliographic references.

*Innovations and Interdisciplinary Solutions for Underserved Areas* Cheikh M.F. Kebe 2018-08-29

This book constitutes the refereed post-conference proceedings of the Second International Conference on Innovations and Interdisciplinary Solutions for Underserved Areas, InterSol 2018, and the 7th Colloque National sur la Recherche en Informatique et ses Applications, CNRIA 2018, held in Kigali, Rwanda, in March 2018. The 23 papers presented were selected from 56 submissions and issue the following themes: papers dealing with the evolution of performances of solar

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systems in Africa, papers addressing the issues is public health, telecom papers studying the business model of telecommunication, math models presenting the climatic phenomenon and finally health papers dealing with medical devices that are suitable to underserved areas. The proceedings also contain 7 papers from the co-located 7th CNRIA (Colloque National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal processing.

### Greening Video

#### Distribution Networks

Adrian Popescu

2018-01-29 This insightful text presents a guide to video distribution networks (VDNs), providing illuminating perspectives on reducing

power consumption in IP-based video networks from an authoritative selection of experts in the field. A particular focus is provided on aspects of architectures, models, Internet protocol television (IPTV), over-the-top (OTT) video content, video on demand (VoD) encoding and decoding, mobile terminals, wireless multimedia sensor networks (WMSNs), software defined networking (SDN), and techno-economic issues. Topics and features: reviews the fundamentals of video over IP distribution systems, and the trade-offs between network/service performance and energy efficiency in VDNs; describes the characterization of the main elements in a video distribution chain, and techniques to decrease energy consumption in

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software-based VoD encoding; introduces an approach to reduce power consumption in mobile terminals during video playback, and in data center networks using the SDN paradigm; discusses the strengths and limitations of different methods for measuring the energy consumption of mobile devices; proposes optimization methods to improve the energy efficiency of WMSNs, and a routing algorithm that reduces energy consumption while maintaining the bandwidth; presents an economic analysis of the savings yielded by approaches to minimize energy consumption of IPTV and OTT video content services. The broad coverage and practical insights offered in this timely volume will be of great value to all researchers,

practitioners and students involved with computer and telecommunication systems. □  
Communication and Networking Dominik Slezak 2009-12-01 As future generation information technology (FGIT) becomes specialized and fragmented, it is easy to lose sight that many topics in FGIT have common threads and, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that combine ideas taken from multiple disciplines in order to achieve something more significant than the sum of the

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individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout multi-faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), Disaster Recovery and

Business Continuity (DRBC; published independently), Future Generation Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), Multimedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and e-Service, Science and Technology (UNESST). Digital Systems and Applications Vojin G. Oklobdzija 2017-12-19 New design architectures in computer systems have surpassed industry expectations. Limits, which were once thought of as fundamental, have now been broken. Digital Systems and Applications details these innovations in systems design as well as

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cutting-edge applications that are emerging to take advantage of the fields increasingly sophisticated capabilities. This book features new chapters on parallelizing iterative heuristics, stream and wireless processors, and lightweight embedded systems. This fundamental text— Provides a clear focus on computer systems, architecture, and applications Takes a top-level view of system organization before moving on to architectural and organizational concepts such as superscalar and vector processor, VLIW architecture, as well as new trends in multithreading and multiprocessing. includes an entire section dedicated to embedded systems and their applications Discusses topics such as

digital signal processing applications, circuit implementation aspects, parallel I/O algorithms, and operating systems Concludes with a look at new and future directions in computing Features articles that describe diverse aspects of computer usage and potentials for use Details implementation and performance-enhancing techniques such as branch prediction, register renaming, and virtual memory Includes a section on new directions in computing and their penetration into many new fields and aspects of our daily lives Wireless Information Networks Kaveh Pahlavan 2005-11-07 Towards location aware mobile ad hoc sensors A Systems Engineering Approach to Wireless Information Networks The Second

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Edition of this internationally respected textbook brings readers fully up to date with the myriad of developments in wireless communications. When first published in 1995, wireless communications was synonymous with cellular telephones. Now wireless information networks are the most important technology in all branches of telecommunications. Readers can learn about the latest applications in such areas as ad hoc sensor networks, home networking, and wireless positioning. Wireless Information Networks takes a systems engineering approach: technical topics are presented in the context of how they fit into the ongoing development of new systems and services, as well as the recent developments in national and

international spectrum allocations and standards. The authors have organized the myriad of current and emerging wireless technologies into logical categories: \*

- Introduction to Wireless Networks presents an up-to-the-moment discussion of the evolution of the cellular industry from analog cellular technology to 2G, 3G, and 4G, as well as the emergence of WLAN and WPAN as broadband ad hoc networks \*
- Characteristics of Radio Propagation includes new coverage of channel modeling for space-time, MIMO, and UWB communications and wireless geolocation networks \*
- Modem Design offers new descriptions of space-time coding, MIMO antenna systems, UWB communications, and multi-user detection and interference cancellation techniques

used in CDMA networks \*  
Network Access and  
System Aspects  
incorporates new  
chapters on UWB systems  
and RF geolocations,  
with a thorough revision  
of wireless access  
techniques and wireless  
systems and standards  
Exercises that focus on  
real-world problems are  
provided at the end of  
each chapter. The mix of  
assignments, which  
includes computer  
projects and  
questionnaires in  
addition to traditional  
problem sets, helps  
readers focus on key  
issues and develop the  
skills they need to  
solve actual engineering  
problems. Extensive  
references are provided  
for those readers who  
would like to explore  
particular topics in  
greater depth. With its  
emphasis on knowledge-  
building to solve  
problems, this is an  
excellent graduate-level

textbook. Like the  
previous edition, this  
latest edition will also  
be a standard reference  
for the  
telecommunications  
industry.

*Performance of  
Distributed Systems and  
Integrated Communication  
Networks* T. Hasegawa  
2014-06-28 This book  
explores new analytical  
techniques and tools for  
the performance  
evaluation of  
distributed and  
integrated computer  
communication systems.  
The systems considered  
are those arising in  
LAN, MAN, WAN broadband  
ISDN, and ATM switching.  
These systems are  
mathematically modelled  
and analysed. Analytical  
results are presented on  
the basic queueing  
models such as multi-  
queue, priority queue,  
queueing network, queue  
with bursty input and  
superposed input, and  
multi-server queue.

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These results can be usefully applied for the performance evaluation of all the above systems.

*Role of ICT in Higher Education* Gopal Singh Latwal 2020-11-17 This new volume provides an informative collection of chapters on ICT and data analytics in education, helping to lead the digital revolution in higher education. The chapters emphasize skill development through ICT, artificial intelligence in education, policies for integrating ICT in higher education, and more. The book focuses mainly on technological advancements in ICT in education, the perceived role of ICT in the teaching-learning transaction, pedagogy for teaching-learning in the 21st century, student-centered learning based on ICT, learning analytics,

online technologies learning, tools for technology enhanced learning, distance education and learning, the effective use of ICT in management education, experiences in ICT for technology-enhanced learning, influence of ICT in research development in higher education, role of teachers in direct classroom teaching in web-based education system, and role of ICT in innovation capacity building. The case studies help to illustrate the ideas and concepts discussed in the chapters.

### **Communication Networks**

Alberto Leon-Garcia 2003-07-16 This book is designed for introductory one-semester or one-year courses in communications networks in upper-level undergraduate programs. The second half of the

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book can be used in more advanced courses. As pre-requisites the book assumes a general knowledge of computer systems and programming, and elementary calculus. The second edition expands on the success of the first edition by updating on technological changes in networks and responding to comprehensive market feedback.

*Operations and Management in IP-Based Networks* Schönwälder Jürgen 2005-09-28 This book constitutes the refereed proceedings of the 5th IEEE International Workshop on IP Operations and Management, IPOM 2005, held in Barcelona, Spain, in October 2005. The 21 revised full papers presented were carefully reviewed and selected for inclusion in the book. They are organized in topical sections on operations

and management for VoIP, IMS and managed IP services, management of open interfaces, QoS and pricing in NGNs, autonomic communications, policy-based management, routing and topologies, routing and tools, as well as experiences from testbeds and trials.

**Resource, Mobility, and Security Management in Wireless Networks and Mobile Communications**

Yan Zhang 2006-10-25 Organized into three parts, Resource, Mobility, and Security Management in Wireless Networks and Mobile Communications examines the inherent constraint of limited bandwidth and unreliable time-varying physical link in the wireless system, discusses the demand to realize the service continuity in the single-hop or multi-hop wireless networks, and explores trusted

communication in mobile computing scenarios. Focusing on the background, technique survey, protocol design, and analytical methods, the book discusses standards in 802.11x/3G/4G, HotSpot Wireless, Bluetooth sensor networks, and access control in wireless Ad Hoc networks. Other topics include call admission control (CAC), routing, multicast, medium access control (MAC), scheduling, bandwidth adaptation, handoff management, location management, network mobility, secure routing, key management, authentication, security, privacy, and performance simulation and analysis. This book is a comprehensive source of information on basic concepts, major issues, design approaches, future research directions, and

the interaction between these components. With its broad coverage allowing for easy cross reference, the book also provides detailed techniques for eliminating bandwidth insufficiency, increasing location management performance, and decreasing the associated authentication traffic. Features: Offers competitive, self-contained information on resource, mobility, and security management in wireless networks Explains the interaction and coupling among the most important components in wireless networks Examines background, applications, and standard protocols Addresses challenges and solutions in key management of wireless sensor networks Covers how to provide effective and efficient

authentication and key agreements for cellular access security  
*Ubiquitous Intelligent Systems* P. Karuppusamy  
**Enterprise Information Systems** Joaquim Filipe  
2009-05-04 This book contains the collection of full papers accepted at the 11th International Conference on Enterprise Information Systems (ICEIS 2009), organized by the Institute for Systems and Technologies of Information Control and Communication (INSTICC) in cooperation with the Association for Advancement of Artificial Intelligence (AAAI) and ACM SIGMIS (SIG on Management Information Systems), and technically co-sponsored by the Japanese IEICE SWIM (SIG on Software Enterprise Modeling) and the Workflow Management Coalition (WfMC). ICEIS 2009 was held in Milan,

Italy. This conference has grown to become a major point of contact between research scientists, engineers and practitioners in the area of business applications of information systems. This year, five simultaneous tracks were held, covering different aspects related to enterprise computing, including: “- tabases and Information Systems Integration,” “Artificial Intelligence and Decision Support Systems,” “Information Systems Analysis and Specification,” “Software Agents and Internet Computing” and “Human-Computer Interaction”. All tracks describe research work that is often oriented toward real-world applications and highlight the benefits of information systems and technology for industry and services, thus

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making a bridge between academia and enterprise. ICEIS 2009 received 644 paper submissions from 70 countries in all continents; 81 papers were published and presented as full papers, i.e., completed research work (8 pages/30-minute oral presentation).

Additional papers accepted at ICEIS, including short papers and posters, were published in the regular conference proceedings.

#### **NETWORKING 2005.**

**Networking Technologies, Services, and Protocols; Performance of Computer and Communication**

**Networks; Mobile and Wireless Communications Systems**

Raouf Boutaba  
2005-05-02 This book constitutes the refereed proceedings of the 4th International IFIP-TC6 Networking Conference, NETWORKING 2005, held in Waterloo, Canada in May 2005. The 105 revised

full papers and 36 posters were carefully reviewed and selected from 430 submissions. The papers are organized in topical sections on peer-to-peer networks, Internet protocols, wireless security, network security, wireless performance, network service support, network modeling and simulation, wireless LAN, optical networks, Internet performance and Web applications, ad-hoc networks, adaptive networks, radio resource management, Internet routing, queuing models, monitoring, network management, sensor networks, overlay multicast, QoS, wireless scheduling, multicast traffic management and engineering, mobility management, bandwidth management, DCMA, and wireless resource management.

**Telemedicine** Georgi  
Graschew 2011-06-20

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Telemedicine is a rapidly evolving field as new technologies are implemented for example for the development of wireless sensors, quality data transmission. Using the Internet applications such as counseling, clinical consultation support and home care monitoring and management are more and more realized, which improves access to high level medical care in underserved areas. The 23 chapters of this book present manifold examples of telemedicine treating both theoretical and practical foundations and application scenarios.

*Smart Grid as a Solution for Renewable and Efficient Energy* Ahmad, Ayaz 2016-04-20 As the need for proficient power resources continues to grow, it is becoming increasingly

important to implement new strategies and technologies in energy distribution to meet consumption needs. The employment of smart grid networks assists in the efficient allocation of energy resources. Smart Grid as a Solution for Renewable and Efficient Energy features emergent research and trends in energy consumption and management, as well as communication techniques utilized to monitor power transmission and usage. Emphasizing developments and challenges occurring in the field, this book is a critical resource for researchers and students concerned with signal processing, power demand management, energy storage procedures, and control techniques within smart grid networks.

Multimedia Services in Wireless Internet Lin  
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to provide seamless, high quality multimedia for the wireless Internet. This book introduces the promising protocols for multimedia services and presents the analytical frameworks for measuring their performance in wireless networks. Furthermore, the book shows how to fine-tune the parameters for Quality of Service (QoS) provisioning in order to illustrate the effect that QoS has upon the stability, integrity and growth of next generation wireless Internet. In addition, the authors provide the tools required to implement this understanding. These tools are particularly useful for design and engineering network architecture and protocols for future wireless Internet. Additionally, the book provides a good overview

of wireless networks, while also appealing to network researchers and engineers. Key Features: Provides a comprehensive and analytical understanding of the performance of multimedia services in wireless Internet, and the tools to implement such an understanding. Addresses issues such as IEEE 802.11, AIMD/RED (Additive Increase-Multiplicative Decrease/Random Early Detection), multimedia traffic models, congestion control and random access networks. Investigates the impact of wireless characteristics on QoS constraint multimedia applications. Includes a case study on AIMD for multimedia playback applications. Features numerous examples, suggested reading and review questions for each chapter. This book is an invaluable

resource for postgraduate students undertaking courses in wireless networks and multimedia services, students studying advanced graduate courses in electrical engineering and computer science, and researchers and engineers in the field of wireless networks.

Wireless Networking Based Control Sudip K. Mazumder 2010-11-25 This book will have a broad appeal in the area of Wireless Networking-Based Control. Various engineering disciplines, control and communication science organizations will be interested in purchasing the book with a new, emerging, and important theme. Also, industry such as Honeywell and those (e.g. power industry, automotive industry, aerospace industry) interested in implementing wireless

network control to express interest in purchasing this book. *The Multimedia Internet* Stephen Weinstein 2007-02-15 Here is a thorough, not-overly-complex introduction to the three technical foundations for multimedia applications across the Internet: communications (principles, technologies and networking); compressive encoding of digital media; and Internet protocol and services. All the contributing systems elements are explained through descriptive text and numerous illustrative figures; the result is a book well-suited toward non-specialists, preferably with technical background, who need well-composed tutorial introductions to the three foundation areas. The text discusses the latest

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advances in digital audio and video encoding, optical and wireless communications technologies, high-speed access networks, and IP-based media streaming, all crucial enablers of the multimedia Internet. *Information Technology Network and Internet* C. T. Bhunia 2005-12 This Book Is Specially Designed To Improve The Problem Solving Ability And The Imaginative Power Of Students Over The Subjects Of Information Technology, Network And Internet. The Conventional Text And Reference Books Ignore That Fact Young Minds Need To Be Properly Trained And Nurtured To Achieve Excellency. In The Book Lots Of Research Issues Are Discussed Pertaining The Current Issues Of Networking. The Book Covers General Topics Of Information Technology Including The Future

Trends Of Computing And Networking, Networks In General Starting With Protocol To Wireless Networking, Internet Technology In Details Including Next Generation Internet. The Evolution Of Networking, Economics Benefits, Transitional Phases, Evolution Of Generations Of Computers And Communications, Pcn, Packet Switching To Atm Cell Switching, Lan, Man, Wan, Ethernet And Its Future Generations, Internetworking, Gateways, Bridges, Isdn, Xdsl And Applications Are Discussed. Tcp/Ip, Udp, Icmp, Arp, Rarp, Ipv6, Firewall Are Dealt With Problems And Exercises. The Future Network Will Face Three Major Challenges Of High Data Rate, Reliable Transport And Secured Transport. Two Exclusives Chapters Deal With Reliable Transport (Basically Error

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Control) And Secured Transport. The Details Analysis Of Bec Techniques Including Those Of Basic Arqs And Several New And Modified Approaches Are Extensively Discussed. Many Research Direction Are Examined. The Conventional Security Techniques Namely Coding Schemes, Key Transport Protocol, Key Distribution Protocols, One Time Key Pad, Des, Aes And Md Etc. Are Thoroughly Discussed In The Book. The Future Research Areas Of Secured Techniques Are Explored With Possible Solution. A Chapter On Successor Of Ir Now Believed As Knowledge Technology Has Been Referred To. In Fact In Every Chapter, Some Research Issues Are Mentioned With Judicious Selection And Approaches. The Book Is Aimed To Benefit Be/Btech And Mtech

Students Of Computer Science & Engineering, Electronics & Communication Engineering, Information Technology And Electrical Engineering. **Ad Hoc Networks** Shiwen Mao 2010-01-23 Ad hoc networks refer to the wireless networking paradigm that covers a variety of network forms for specific purposes, such as mobile ad hoc networks, sensor networks, vehicular networks, underwater networks, underground networks, personal area networks, and home networks. The various forms of ad hoc networks promise a broad scope of applications in civilian, commercial, and military areas, which have led to significant new research problems and challenges, and have attracted great efforts from academia, industry, and government. This unique

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networking paradigm necessitates re-examination of many established wireless networking concepts and protocols, and calls for developing new fundamental understanding of problems such as interference, mobility, connectivity, capacity, and security, among others. While it is essential to advance theoretical research on fundamentals and practical research on efficient algorithms and protocols, it is also critical to develop useful applications, experimental prototypes, and real-world deployments to achieve a practical impact on our society for the success of this networking paradigm. The annual International Conference on Ad Hoc Networks (AdHocNets) is a new event that aims at providing a forum to

bring together researchers from academia as well as practitioners from industry and government to meet and exchange ideas and recent research work on all aspects of ad hoc networks. As the first edition of this event, AdHocNets 2009 was successfully held in Niagara Falls, Ontario, Canada, during September 22–25, 2009.

*NETWORKING 2002: Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications*  
Enrico Gregori

2007-06-30 This book constitutes the refereed proceedings of the Second IFIP-TC6 Networking Conference, Networking 2002. Networking 2002 was sponsored by the IFIP Working Groups 6.2, 6.3, and 6.8. For this reason

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the conference was structured into three tracks: i) Networking Technologies, Services, and Protocols, ii) Performance of Computer and Communication Networks, and iii) Mobile and Wireless Communications. This year the conference received 314 submissions coming from 42 countries from all 7 continents Africa (4), Asia (84), America (63), Europe (158), and Oceania (5). This represents a 50% increase in submissions over the first conference, thus indicating that Networking is becoming a reference conference for worldwide researchers in the networking community. With so many papers to choose from, the job of the Technical Program Committee, to provide a conference program of

the highest technical excellence, was both challenging and time consuming. From the 314 submissions, we finally selected 82 full papers for presentation during the conference technical sessions. To give young researchers and researchers from emerging countries the opportunity to present their work and to receive useful feedback from participants, we decided to include two poster sessions during the technical program. Thirty-one short papers were selected for presentation during the poster sessions. The conference technical program was split into three days, and included, in addition to the 82 refereed contributions, 5 invited papers from top-level researchers in the networking community.