Cellular Mobile Networks Introduction Computer Science

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Future Communication, Information and Computer Science - Dawei Zheng 2015-02-05

The 2014 International Conference on Future Communication, Information and Computer

Science (FCICS 2014) was held May 22-23, 2014 in Beijing, China. The objective of FCICS 2014 was to provide a platform for researchers, engineers and academics as well as industrial professionals from all over the world to present their research results and developm

Distributed Computing - Sajal K. Das 2002-12-13

This book constitutes the refereed proceedings of the 4th International Workshop on Distributed Computing, IWDC 2002, held in Calcutta, India, in December 2002. The 31 revised full papers and 3 student papers presented together with 3 keynote papers were carefully reviewed and selected from more than 90 submissions. The papers are organized in topical sections on Web caching, distributed computing, wireless networks, wireless mobile systems, VLSI and parallel systems, optical networks, and distributed systems.

Second International Conference on Computer Networks and Communication Technologies - S. Smys 2020-01-21

This book presents new communication and networking technologies, an area that has gained significant research attention from both academia and industry in recent years. It also discusses the development of more intelligent and efficient communication technologies, which are an essential part of current day-to-day life, and reports on recent innovations in technologies, architectures, and standards relating to these technologies. The book includes research that spans a wide range of communication and networking technologies, including wireless sensor networks, big data, Internet of Things, optical and telecommunication networks, artificial intelligence, cryptography, next-generation networks, cloud computing, and natural language processing. Moreover, it focuses on novel solutions in the context of communication and networking challenges, such as optimization algorithms, network interoperability, scalable network clustering, multicasting and fault-

tolerant techniques, network authentication mechanisms, and predictive analytics.

Encyclopedia of Computer Science and Technology - Phillip A. Laplante 2017-10-02

With breadth and depth of coverage, the Encyclopedia of Computer Science and Technology, Second Edition has a multi-disciplinary scope, drawing together comprehensive coverage of the inter-related aspects of computer science and technology. The topics covered in this encyclopedia include: General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human-centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System (CCS), first published in 1988 but subsequently revised in 2012. This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field. The encyclopedia brings together the information and historical context that students, practicing professionals, researchers, and academicians need to have a strong and solid foundation in all aspects of computer science and technology.

Advances in Wireless, Mobile Networks and Applications - Salah S. Al-Majeed 2011-06-11

This book constitutes the refereed proceedings of the Third International Conference on Wireless, Mobile Networks and Applications, WiMoA 2011, and the First International Conference on Computer Science, Engineering and Applications, ICCSEA 2011, held in Dubai, United Arab Emirates, in May 2011. The book is organized as a collection of papers from WiMoA 2011 and ICCSEA 2011. The 8 revised full papers presented in the WiMoA 2011 part were carefully reviewed and selected from 63 submissions. The 20 revised full papers

presented in the ICCSEA 2011 part were carefully reviewed and selected from 110 submissions.

Satisfiability Problem - Dingzhu Du 1997-01-01

The satisfiability (SAT) problem is central in mathematical logic, computing theory, and many industrial applications. There has been a strong relationship between the theory, the algorithms, and the applications of the SAT problem. This book aims to bring together work by the best theorists, algorithmists, and practitioners working on the sat problem and on industrial applications, as well as to enhance the interaction between the three research groups. The book features the applications of theoretical/algorithmic results to practical problems and presents practical examples for theoretical/algoritmic study. Major topics covered in the book include practical and industial SAT problems and benchmarks, significant case studies and applications of the SAT problem and SAT algorithms, new algorithms and improved techniques for satisfiability testing, specific data structures and implementation details of the SAT algorithms, and the theoretical study of the SAT problem and SAT algorithms.

Mobile and Wireless Technologies 2016 - Kuinam J Kim 2016-05-07

This book presents the peer-reviewed contributions of ICMWT2016, an international conference devoted to mobile and wireless technology. Researchers and professionals from academia and industry met to discuss the cutting-edge developments in the field. The book includes papers on mobile and wireless networks, the increasingly important security issues, data management, as well as the latest developments in mobile software development.

Information Networking. Networking Technologies for Broadband and Mobile Networks - Hyun-Kook Kahng 2004-08-23

This book constitutes the thoroughly refereed

post proceedings of the International Conference on Information Networking, ICOIN 2004, held in Busan, Korea, in February 2004. The 104 revised full papers presented were carefully selected during two rounds of reviewing and revision. The papers are organized in topical sections on mobile Internet and ubiquitous computing; QoS, measurement and performance analysis; high-speed network technologies; next generation Internet architecture; security; and Internet applications.

Recent Trends in Wireless and Mobile Networks - Abdulkadir Özcan 2011-06-16

This book constitutes the refereed proceedings of the Third International Conference on Wireless, Mobile Networks, WiMo 2011, and of The Third International Conference on Computer Networks and Communications, CoNeCo 2011, held in Ankara, Turkey, in June 2011. The 40 revised full papers presented were carefully reviewed and selected from 202 submissions.

Handbook of Wireless Networks and Mobile Computing - Ivan Stojmenovic 2003-04-08

The huge and growing demand for wireless communication systems has spurred a massive effort on the parts of the computer science and electrical engineering communities to formulate ever-more efficient protocols and algorithms. Written by a respected figure in the field, Handbook of Wireless Networks and Mobile Computing is the first book to cover the subject from a computer scientist's perspective. It provides detailed practical coverage of an array of key topics, including cellular networks, channel assignment, queuing, routing, power optimization, and much more.

Mobile Phone Programming - Frank H. P. Fitzek 2007-06-25

This book provides a solid overview of mobile phone programming for readers in both academia and industry. Coverage includes all commercial realizations of the Symbian, Windows Mobile and Linux platforms. The text introduces each programming language (JAVA,

Python, C/C++) and offers a set of development environments "step by step," to help familiarize developers with limitations, pitfalls, and challenges.

Introduction to Wireless and Mobile Systems - Dharma P. Agrawal 2015-01-01

Focusing on qualitative descriptions and realistic explanations of relationships between wireless systems and performance parameters, INTRODUCTION TO WIRELESS AND MOBILE SYSTEMS, 4e explains the general principles of how wireless systems work, how mobility is supported, what the underlying infrastructure is and what interactions are needed among different functional components. Rather than offering a thorough history of the development of wireless technologies or an exhaustive list of work being carried out, the authors help computer science, computer engineering, and electrical engineering students learn this exciting technology through relevant examples, such as understanding how a cell phone starts working as soon as they get out of an airplane. This edition offers the most extensive coverage of Ad Hoc and Sensor Networks available for the course and includes up-to-date coverage of the latest wireless technologies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Wireless Algorithms, Systems, and Applications - Qing Yang 2016-08-03

This book constitutes the proceedings of the 11th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2016, held in Bozeman, MT, USA, in August 2016.The 50 full papers and 9 invited papers presented werde carefully reviewed and selected from 148 submissions. WASA is designed to be a forum for theoreticians, system and application designers, protocol developers and practitioners to discuss and express their views on the current trends, challenges, and state-of-the-art solutions related to various issues in wireless networks.

Topics of interests include, but not limited to, effective and efficient state-of-the-art algorithm design and analysis, reliable and secure system development and implementations, experimental study and testbed validation, and new application exploration in wireless networks.

Introduction to Wireless and Mobile Systems - Qing-An Zeng 2015-02

Learn how wireless systems work, how mobility is supported, what the underlying infrastructure is and what interactions are needed among different functional components with INTRODUCTION TO WIRELESS AND MOBILE SYSTEMS, 4e. Focusing on qualitative descriptions and the realistic explanations of relationships between wireless systems and performance parameters, this user-friendly book helps you learn this exciting technology through relevant examples, such as understanding how a cell phone starts working as soon as they get out of an airplane.

Mobile Networks and Management - Ramón Agüero 2016-01-08

This book constitutes the post-proceedings of the 7th International Conference on Mobile Networks and Management, MONAMI 2015, held in Santander, Spain, in September 2015. The 16 full papers were carefully reviewed and selected from 24 submissions. In addition there appears one short and 5 invited papers. These are organized thematically in five parts starting with Cellular Network Management and Self-Organizing Networks in Part I. Radio Resource Management in LTE and 5G Networks aspects are discussed in Part II. Part III presents novel Techniques and Algorithms for Wireless Networks, while Part IV deals with Video Streaming over Wireless Networks. Part V includes papers presenting avant-garde research on applications and services and, finally, Part VI features two papers introducing novel architectural approaches for Wireless Sensor Networks.

Wireless Communications Systems and

Networks - Mohsen Guizani 2006-04-11
Since the early 1990s, the wireless communications field has witnessed explosive growth. The wide range of applications and existing new technologies nowadays stimulated this enormous growth and encouraged wireless applications. The new wireless networks will support heterogeneous traffic, consisting of voice, video, and data (multimedia). This necessitated looking at new wireless generation technologies and enhance its capabilities. This includes new standards, new levels of Quality of Service (QoS), new sets of protocols and architectures, noise reduction, power control, performance enhancement, link and mobility management, nomadic and wireless networks security, and ad-hoc architectures. Many of these topics are covered in this textbook. The aim of this book is research and development in the area of broadband wireless communications and sensor networks. It is intended for researchers that need to learn more and do research on these topics. But, it is assumed that the reader has some background about wireless communications and networking. In addition to background in each of the chapters, an in-depth analysis is presented to help our readers gain more R&D insights in any of these areas. The book is comprised of 22 chapters, written by a group of well-known experts in their respective fields. Many of them have great industrial experience mixed with proper academic background.

WiMAX Network Planning and Optimization - Yan Zhang 2009-04-23
This book offers a comprehensive explanation on how to dimension, plan, and optimize WiMAX networks. The first part of the text introduces WiMAX networks architecture, physical layer, standard, protocols, security mechanisms, and highly related radio access technologies. It covers system framework, topology, capacity, mobility management, handoff management, congestion control, medium access control

(MAC), scheduling, Quality of Service (QoS), and WiMAX mesh networks and security. Enabling easy understanding of key concepts and technologies, the second part presents practical examples and illustrative figures to explain planning techniques and optimization algorithms. The author provides both theoretical and practical information to ensure in-depth, realistic results.

Modeling Approaches and Algorithms for Advanced Computer Applications - Abdelmalek Amine 2013-08-23

"During the last decades Computational Intelligence has emerged and showed its contributions in various broad research communities (computer science, engineering, finance, economic, decision making, etc.). This was done by proposing approaches and algorithms based either on turnkey techniques belonging to the large panoply of solutions offered by computational intelligence such as data mining, genetic algorithms, bio-inspired methods, Bayesian networks, machine learning, fuzzy logic, artificial neural networks, etc. or inspired by computational intelligence techniques to develop new ad-hoc algorithms for the problem under consideration. This volume is a comprehensive collection of extended contributions from the 4th International Conference on Computer Science and Its Applications (CIIA'2013) organized into four main tracks: Track 1: Computational Intelligence, Track 2: Security & Network Technologies, Track 3: Information Technology and Track 4: Computer Systems and Applications. This book presents recent advances in the use and exploitation of computational intelligence in several real world hard problems covering these tracks such as image processing, Arab text processing, sensor and mobile networks, physical design of advanced databases, model matching, etc. that require advanced approaches and algorithms borrowed from computational intelligence for

solving them.
International Journal of Computer Science and Security -

Cognitive Radio Oriented Wireless Networks - Mark Weichold 2015-10-12
This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Cognitive Radio Oriented Wireless Networks, CROWNCOM 2015, held in Doha, Qatar, in April 2015. The 66 revised full papers presented were carefully reviewed and selected from 110 submissions and cover the evolution of cognitive radio technology pertaining to 5G networks. The papers are clustered to topics on dynamic spectrum access/management, networking protocols for CR, modeling and theory, HW architecture and implementations, next generation of cognitive networks, standards and business models, and emerging applications for cognitive networks.
Wireless Network Security - Yang Xiao 2007-12-29
This book identifies vulnerabilities in the physical layer, the MAC layer, the IP layer, the transport layer, and the application layer, of wireless networks, and discusses ways to strengthen security mechanisms and services. Topics covered include intrusion detection, secure PHY/MAC/routing protocols, attacks and prevention, immunization, key management, secure group communications and multicast, secure location services, monitoring and surveillance, anonymity, privacy, trust establishment/management, redundancy and security, and dependable wireless networking.
Technological Developments in Networking, Education and Automation - Khaled Elleithy 2010-06-18
Technological Developments in Networking, Education and Automation includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the following areas:

Computer Networks: Access Technologies, Medium Access Control, Network architectures and Equipment, Optical Networks and Switching, Telecommunication Technology, and Ultra Wideband Communications. Engineering Education and Online Learning: including development of courses and systems for engineering, technical and liberal studies programs; online laboratories; intelligent testing using fuzzy logic; taxonomy of e-courses; and evaluation of online courses. Pedagogy: including benchmarking; group-learning; active learning; teaching of multiple subjects together; ontology; and knowledge management. Instruction Technology: including internet textbooks; virtual reality labs, instructional design, virtual models, pedagogy-oriented markup languages; graphic design possibilities; open source classroom management software; automatic email response systems; tablet-pcs; personalization using web mining technology; intelligent digital chalkboards; virtual room concepts for cooperative scientific work; and network technologies, management, and architecture. Coding and Modulation: Modeling and Simulation, OFDM technology , Space-time Coding, Spread Spectrum and CDMA Systems. Wireless technologies: Bluetooth , Cellular Wireless Networks, Cordless Systems and Wireless Local Loop, HIPERLAN, IEEE 802.11, Mobile Network Layer, Mobile Transport Layer, and Spread Spectrum. Network Security and applications: Authentication Applications, Block Ciphers Design Principles, Block Ciphers Modes of Operation, Electronic Mail Security, Encryption & Message Confidentiality, Firewalls, IP Security, Key Cryptography & Message Authentication, and Web Security. Robotics, Control Systems and Automation: Distributed Control Systems, Automation, Expert Systems, Robotics, Factory Automation, Intelligent Control Systems, Man Machine Interaction, Manufacturing Information System, Motion Control, and Process Automation. Vision

Systems: for human action sensing, face recognition, and image processing algorithms for smoothing of high speed motion. Electronics and Power Systems: Actuators, Electro-Mechanical Systems, High Frequency Converters, Industrial Electronics, Motors and Drives, Power Converters, Power Devices and Components, and Power Electronics.

Computational Science and Its Applications - ICCSA 2005 - Osvaldo Gervasi 2005-05-02

The four volume set assembled following The 2005 International Conference on Computational Science and its Applications, ICCSA 2005, held in Suntec International Convention and Exhibition Centre, Singapore, from 9 May 2005 till 12 May 2005, represents the ?ne collection of 540 refereed papers selected from nearly 2,700 submissions. Computational Science has ?rmly established itself as a vital part of many scienti?c investigations, a?ecting researchers and practitioners in areas ranging from applications such as aerospace and automotive, to emerging technologies such as bioinformatics and nanotechnologies, to core disciplines such as ma- ematics, physics, and chemistry. Due to the shear size of many challenges in computational science, the use of supercomputing, parallel processing, and - phisticated algorithms is inevitable and becomes a part of fundamental t-oretical research as well as endeavors in emerging ?elds. Together, these far reaching scienti?c areas contribute to shape this Conference in the realms of state-of-the-art computational science research and applications, encompassing the facilitating theoretical foundations and the innovative applications of such results in other areas.

6G Mobile Wireless Networks - Yulei Wu 2021-08-24

This book is the world’s first book on 6G Mobile Wireless Networks that aims to provide a comprehensive understanding of key drivers, use cases, research requirements, challenges and open issues that are expected to drive 6G

research. In this book, we have invited world-renowned experts from industry and academia to share their thoughts on different aspects of 6G research. Specifically, this book covers the following topics: 6G Use Cases, Requirements, Metrics and Enabling Technologies, PHY Technologies for 6G Wireless, Reconfigurable Intelligent Surface for 6G Wireless Networks, Millimeter-wave and Terahertz Spectrum for 6G Wireless, Challenges in Transport Layer for Tbit/s Communications, High-capacity Backhaul Connectivity for 6G Wireless, Cloud Native Approach for 6G Wireless Networks, Machine Type Communications in 6G, Edge Intelligence and Pervasive AI in 6G, Blockchain: Foundations and Role in 6G, Role of Open-source Platforms in 6G, and Quantum Computing and 6G Wireless. The overarching aim of this book is to explore the evolution from current 5G networks towards the future 6G networks from a service, air interface and network perspective, thereby laying out a vision for 6G networks. This book not only discusses the potential 6G use cases, requirements, metrics and enabling technologies, but also discusses the emerging technologies and topics such as 6G PHY technologies, reconfigurable intelligent surface, millimeter-wave and THz communications, visible light communications, transport layer for Tbit/s communications, high-capacity backhaul connectivity, cloud native approach, machine-type communications, edge intelligence and pervasive AI, network security and blockchain, and the role of open-source platform in 6G. This book provides a systematic treatment of the state-of-the-art in these emerging topics and their role in supporting a wide variety of verticals in the future. As such, it provides a comprehensive overview of the expected applications of 6G with a detailed discussion of their requirements and possible enabling technologies. This book also outlines the possible challenges and research directions to facilitate the future research and development of

6G mobile wireless networks.

Advances in Computer Science and Information Technology. Networks and Communications - Natarajan Meghanathan 2012-04-23

The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings ofthe Second International Conference on Computer Science and InformationTechnology, CCSIT 2012, held in Bangalore, India, in January 2012. The 66 revised full papers presented in this volume were carefully reviewed andselected from numerous submissions. The papers are organized in topical sectionson networks and communications; wireless and mobile networks; and network security.

Mobile Networks and Management - Kostas Pentikousis 2012-02-02

This book constitutes the thoroughly refereed post-conference proceedings of the Second International ICST Conference on Mobile Networks and Management, MONAMI 2010, held in Santander, Spain in September 2010. The 29 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings. The papers are organized in topical sections on routing and virtualization, autonomic networking, mobility management, multiaccess selection, wireless network management, wireless networks, and future research directions.

Advances in Computer Science, Engineering and Applications - David C. Wyld 2012-05-17

The International conference series on Computer Science, Engineering & Applications (ICCSEA) aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science, engineering and applications and to establish new collaborations in these areas. The Second International Conference on Computer Science, Engineering & Applications (ICCSEA-2012), held in Delhi, India, during May 25-27, 2012 attracted many local and international delegates,

presenting a balanced mixture of intellect and research both from the East and from the West. Upon a strenuous peer-review process the best submissions were selected leading to an exciting, rich and a high quality technical conference program, which featured high-impact presentations in the latest developments of various areas of computer science, engineering and applications research.

NETWORKING 2006. Networking Technologies, Services, Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems - Fernando Boavida 2006-04-27

Here are the refereed proceedings of the 5th International IFIP-TC6 Networking Conference, NETWORKING 2006. The 88 revised full papers and 31 poster papers are organized in topical sections on caching and content management, mobile ad-hoc networks, mobility/handoff, monitoring/measurements, multicast, multimedia, optical networks, peer-to-peer, resource management and QoS, routing, topology and location awareness, traffic engineering, transport protocols, wireless networks, and wireless sensor networks.

Advances in Computer and Information Sciences '98 - Uğur Güdükbay 1998

Advances in Computer Science and Information Engineering - David Jin 2012-05-11

CSIE2012 is an integrated conference concentrating its focus on Computer Science and Information Engineering . In the proceeding, you can learn much more knowledge about Computer Science and Information Engineering of researchers from all around the world. The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned fields. In order to meet the high quality of Springer, AISC series, the organization committee has made their efforts to do the following things. Firstly, poor quality

paper has been refused after reviewing course by anonymous referee experts. Secondly, periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions. Finally, the conference organizers had several preliminary sessions before the conference. Through efforts of different people and departments, the conference will be successful and fruitful.

MOBILE COMPUTING - SIPRA DASBIT 2009-11-03

This textbook provides students with a sound foundation in the concepts and applications of mobile computing. It discusses all the relevant topics in mobile computing in a clear and straightforward style. The book begins with an introduction to the subject and then moves on to describe the fundamentals of wireless communication including a brief description of different modulation techniques. The text includes coverage of second generation (2G) cellular network together with its two important implementation standards GSM & IS-95; it also discusses WLL and WLAN. In addition, it presents a variety of data services available in the domain of mobile computing with other relevant issues. Finally, it gives a brief on UMTS, a representative of the third generation (3G) of cellular networks. The fundamental tenets of mobile computing, such as mobility management, channel assignment, protocols at air interface, and system design are carefully covered for all categories of wireless networks described here. A perfect balance between theoretical aspects of mobile computing and its implementation standards has been maintained throughout the book. Many examples and exercises are included, which will help students prepare for examinations. The book is intended primarily for students of B.E./B.Tech. of Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, and related disciplines. It will also be useful to the students of BCA/MCA and

B.Sc./M.Sc. (Computer Science/Electronics).

Mobile Clouds - Frank H. P. Fitzek 2013-12-11

Includes a preface written by Professor Leonard Kleinrock, Distinguished Professor of Computer Science, UCLA, USA This book discusses and explores the concept of mobile cloud, creating an inspiring research space for exploiting opportunistic resource sharing, and covering from theoretical research approaches to the development of commercially profitable ideas. A mobile cloud is a cooperative arrangement of dynamically connected communication nodes sharing opportunistic resources. In this book, authors provide a comprehensive and motivating overview of this rapidly emerging technology. The book explores how distributed resources can be shared by mobile users in very different ways and for various purposes. The book provides many stimulating examples of resource-sharing applications. Enabling technologies for mobile clouds are also discussed, highlighting the key role of network coding. Mobile clouds have the potential to enhance communications performance, improve utilization of resources and create flexible platforms to share resources in very novel ways. Energy efficient aspects of mobile clouds are discussed in detail, showing how being cooperative can bring mobile users significant energy saving. The book presents and discusses multiple examples of mobile clouds applications, based on both existing commercial initiatives as well as proof-of-concept test-beds. Visions and prospects are also discussed, paving the way for further development. As mobile networks and social networks become more and more reliant on each other, the concept of resource sharing takes a wider and deeper meaning, creating the foundations for a global real-time multidimensional resource pool, the underlying infrastructure for shareconomy. Above all, this is an inspiring book for anyone who is concerned about the future of wireless and mobile communications networks and their relationship with Social networks. Key Features:

Provides fundamental ideas and promising concepts for exploiting opportunistic cooperation and cognition in wireless and mobile networks Gives clear definitions of mobile clouds from different perspectives Associates mobile and wireless networks with social networks, creating a vast fertile ground for novel developments in both research and practical applications Considers research directions, emerging trends and visions This book is an excellent resource for wireless/networking researchers in industry and academia, students and mobile phone programmers. Managers interested in new technology developments, service providers, network operators, and those working in the gaming industry will also find the book insightful.

Ubiquitous Intelligence and Computing - Zhiwen Yu 2010-10-08

Ubiquitous sensors, devices, networks and information are paving the way toward a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people. This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed, and the realm of computing possibilities will be significantly extended. By enhancing everyday objects with intelligence, many tasks and processes could be simplified, the physical spaces where people interact, like workplaces and homes, could become more efficient, safer and more enjoyable. Ubiquitous computing, or pervasive computing, uses these many “smart things” or “u-things” to create smart environments, services and applications. A smart thing can be endowed with different levels of intelligence, and may be c- text-aware, active, interactive, reactive, proactive, assistive, adaptive, automated, sentient, perceptual, cognitive, autonomic and/or thinking. Research on ubiquitous intelligence is an emerging research field covering many disciplines. A

series of grand challenges exists to move from the current level of computing services to the smart world of adaptive and intelligent services. Started in 2005, the series of UIC conferences has been held in Taipei, Nagasaki, Three Gorges (China), Hong Kong, Oslo and Brisbane. The proceedings contain the papers presented at the 7th International Conference on Ubiquitous Intelligence and Computing (UIC 2010), held in Xi'an, China, October 26–29, 2010. The conference was accompanied by six vibrant workshops on a variety of research challenges within the area of ubiquitous intelligence and computing.

Location Privacy Protection in Mobile Networks - Xinxin Liu 2013-10-17

This SpringerBrief analyzes the potential privacy threats in wireless and mobile network environments, and reviews some existing works. It proposes multiple privacy preserving techniques against several types of privacy threats that are targeting users in a mobile network environment. Depending on the network architecture, different approaches can be adopted. The first proposed approach considers a three-party system architecture where there is a trusted central authority that can be used to protect users' privacy. The second approach considers a totally distributed environment where users perform privacy protection by themselves. Finally, more general system architecture is discussed including how a semi-trusted server may exist, but users need to collaborate to achieve maximized privacy protection. This brief is designed for researchers and professionals working with privacy preservation, mobile networks, and threat models. The variety of approaches presented makes it useful for students as well.

Cognitive Radio Oriented Wireless Networks - Dominique Noguet 2016-05-28

This book constitutes the thoroughly refereed conference proceedings of the 11th International Conference on Cognitive Radio Oriented

Wireless Networks, CROWNCOM 2016, held in Grenoble, France, May 30 – April 1, 2016. The 62 revised full papers presented were carefully reviewed and selected from numerous submissions and cover the evolution of cognitive radio technology pertaining to 5G networks. The papers are clustered to topics on dynamic spectrum access/management, networking protocols for CR, modeling and theory, HW architecture and implementations, next generation of cognitive networks, standards and business models, emerging applications for cognitive networks.

Mobile Lightweight Wireless Systems - Fabrizio Granelli 2009-08-10

The First International Conference on Mobile Lightweight Systems (MOBILIGHT) was held in Athens during May 18–20, 2009. The decision to organize a scientific event on wireless communications, where competition is really enormous, was motivated by discussions with some colleagues about the current unprecedented request for lightweight, wireless communication devices with high usability and performance able to support added-value services in a highly mobile environment. Such devices follow the user everywhere he/she goes (at work, at home, while travelling, in a classroom, etc.), but also result in exciting - search, development and business opportunities. Such a scenario clearly demands significant upgrades to the existing communi- tion paradigm in terms of infrastructure, devices and services to support the anytime, anywhere, any device philosophy, introducing novel and fast-evolving requirements and expectations on research and development in the field of information and com- nication technologies. The core issue is to support the desire of wireless users to have 24/7 network availability and transparent access to "their own" services.

Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 -

Suresh Chandra Satapathy 2013-10-05
This volume contains the papers presented at the Second International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA-2013) held during 14-16 November 2013 organized by Bhubaneswar Engineering College (BEC), Bhubaneswar, Odisha, India. It contains 63 papers focusing on application of intelligent techniques which includes evolutionary computation techniques like genetic algorithm, particle swarm optimization techniques, teaching-learning based optimization etc for various engineering applications such as data mining, Fuzzy systems, Machine Intelligence and ANN, Web technologies and Multimedia applications and Intelligent computing and Networking etc.

Information Security Education for a Global Digital Society - Matt Bishop 2017-05-17
This book constitutes the refereed proceedings of the 10th IFIP WG 11.8 World Conference on Security Education, WISE 10, held in Rome, Italy, in May 2017. The 14 revised papers presented were carefully reviewed and selected from 31 submissions. They represent a cross section of applicable research as well as case studies in security education and are organized in the following topical sections: information security education; teaching information security; information security awareness and culture; and training information security professionals..

Computer Networks - Andrew S. Tanenbaum 2011
This edition reflects the latest networking technologies with a special emphasis on wireless networking, including 802.11, 802.16, Bluetooth, and 3G cellular, paired with fixed-network coverage of ADSL, Internet over cable, gigabit Ethernet, MPLS, and peer-to-peer networks. It incorporates new coverage on 3G mobile phone networks, Fiber to the Home, RFID, delay-tolerant networks, and 802.11 security, in addition to expanded material on Internet

routing, multicasting, congestion control, quality of service, real-time transport, and content distribution.

Wireless Networks and Mobile Computing - Koushik Sinha 2016-04-21

Wireless communication is one of the fastest growing industry segments today. Many types of wireless networks are now being used for applications such as personal communication, entertainment, rural and urban healthcare, smart home building, inventory control, and surveillance. This book introduces the basic concepts of wireless networks and mobile computing to give engineering students at the undergraduate/graduate level a solid background in the field. It also looks at the latest research and challenging problems in the field to serve as a reference for advanced-level researchers. Wireless Networks and Mobile Computing begins with an introduction to the different types of wireless networks, including Wi-Fi, ZigBee, cellular mobile, ad hoc, cognitive radio, wireless mesh, and wireless sensor. Subsequent chapters address more advanced topics such as: Mobility, bandwidth, and node location management issues in mobile networks Message communication techniques and protocols in ad hoc networks Recent research and future direction of wireless local area networks (WLANs) Deployment of sensor nodes in wireless sensor networks (WSNs) Energy-efficient communication in wireless networks Security aspects of wireless communication The book includes exercises at the end of every chapter to help give students a better insight into the topics presented. It includes a number of advanced-level exercises, which are research problems that may be taken up by researchers in the respective areas. This book provides a valuable reference for classroom study/teaching as well as for technology development and research in the relevant areas.