

Le Networks And Cloud Computing Convergence For Progressive Services And Applications Advances In Wireless Technologies And Telecommunication

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New Threats and Countermeasures in Digital Crime and Cyber Terrorism - Dawson, Maurice 2015-04-30

Technological advances, although beneficial and progressive, can lead to vulnerabilities in system networks and security. While researchers attempt to find solutions, negative uses of technology continue to create new security threats to users. *New Threats and Countermeasures in Digital Crime and Cyber Terrorism* brings together research-based chapters and case studies on security techniques and current methods being used to identify and overcome technological vulnerabilities with an emphasis on security issues in mobile computing and online activities. This book is an essential reference source for researchers, university academics, computing professionals, and upper-level students interested in the techniques, laws, and training initiatives currently being implemented and adapted for secure computing.

Digital Water - William Sarni 2021-12-26

This book shows how digital technologies are transforming how we locate, manage, treat, distribute, and use water. Water resources are under stress from over-allocation, increased demand, pollution, climate change, and outdated public policies. Historical approaches to delivering water for human consumption, industrial production, agriculture, power generation, and ecosystems are no longer adequate to meet demands. As a result, we need to vastly improve the efficiency and effectiveness of our public and private sector processes in water management. The author describes recent advances in data acquisition (e.g., satellite imagery, drones, and on-the-ground sensors and smart meters), big data analytics, artificial intelligence, and blockchain, which provide new tools to meet needs in both developing and developed economies. For example, a digital water technology portfolio brings the value of real-time system-wide monitoring – and response – within the capability of water providers of all sizes and sophistication. As such, digital water promises to increase the long-term value of water resource assets while assisting in compliance with regulations and helping respond to the demands of population growth and evolving natural and business ecosystems. Including many practical examples, the author concludes that digital and smart water technologies will not only better manage water assets but also enable the public sector to provide universal access to safe drinking water, the private sector to continue to grow, and ecosystems to thrive.

Le green networking : vers des réseaux efficaces en consommation énergétique - KRIEF Francine 2012-09-14

Ce livre traite d'un nouveau paradigme de communication, appelé green networking, qui est particulièrement important pour toute la communauté scientifique (ingénieurs, universitaires, chercheurs et industriels) travaillant dans le domaine des réseaux. En effet réduire l'impact environnemental des systèmes de communication est un enjeu majeur avec l'augmentation constante du coût de l'énergie et la nécessité de réduire les émissions mondiales de CO2 pour protéger notre environnement. Cet ouvrage présente les avancées récentes et les orientations futures qui permettront de relever les défis du green networking et de disposer ainsi de réseaux (filaire, sans fil et mobiles) et d'équipements de communications efficaces en énergie sur lesquels s'appuieront également les nouvelles générations d'infrastructures urbaines.

Incorporating Nature-Inspired Paradigms in Computational Applications - Khosrow-Pour, Mehdi 2018-04-06

Many techniques have been developed to control the variety of dynamic systems. To develop those control techniques, it is fundamental to know the mathematical relations between the system inputs and outputs. *Incorporating Nature-Inspired Paradigms in Computational Applications* is a critical scholarly resource that examines the application of nature-inspired paradigms on system identification. Featuring coverage on a broad range of topics such as biogeographic computation, evolutionary control systems, and natural computing, this book is geared towards IT professionals, engineers, computer scientists, academicians, researchers, and graduate-level students seeking current research on the application of nature-inspired paradigms.

Communication Infrastructures for Cloud Computing - Mouftah, Hussein T. 2013-09-30
Cloud computing has provided multiple advantages as well as challenges to software and infrastructure services. In order to be fully beneficial, these challenges facing cloud specific communication protocols must be addressed. *Communication Infrastructures for Cloud Computing* presents the issues and research directions for a broad range of cloud computing aspects of software, computing, and storage systems. This book will highlight a broad range of topics in communication infrastructures for cloud computing that will benefit researchers, academics, and practitioners in the active fields of engineering, computer science, and software.

Evolution of Telecommunication Services - Emmanuel Bertin 2013-10-14

In the telecom world, services have usually been conceived with a specific mindset. This mindset has defined the traditional characteristics of these services; services distinguished by their linkage with the access network, tight control over service use (e.g., authentication, billing), lack of deep personalization capabilities (mass services only) and reliance on standardization to achieve end-to-end interoperability between all the actors of the value chain (e.g., operators, platform manufacturers, device manufactures). This book offers insights into this complex but exciting world of telecommunications characterized by constant evolution, and approaches it from technology as well as business perspectives. The book is appropriately structured in three parts: (a) an overview of the state-of-the-art in fixed/mobile NGN and standardization activities; (b) an analysis of the competitive landscape between operators, device manufactures and OTT providers, emphasizing why network operators are challenged on their home turf; and (c) opportunities for business modeling and innovative telecom service offers.

Cloud and IoT-Based Vehicular Ad Hoc Networks - Gurinder Singh 2021-06-05

CLOUD AND IOT-BASED VEHICULAR AD HOC NETWORKS This book details the architecture behind smart cars being fitted and connected with vehicular cloud computing, IoT and VANET as part of the intelligent transport system (ITS). As technology continues to weave itself more tightly into everyday life, socioeconomic development has become intricately tied to ever-evolving innovations. An example of this is the technology being developed to address the massive increase in the number of vehicles on the road, which has resulted in more traffic congestion and road accidents. This challenge is being addressed by developing new technologies to optimize traffic management operations. This book describes the state-of-the-art of the recent developments of Internet of Things (IoT) and cloud computing-based concepts that have been introduced to improve Vehicular Ad-Hoc Networks (VANET) with advanced cellular networks such as 5G networks and vehicular cloud concepts. 5G cellular networks provide consistent, faster and more reliable connections within the vehicular mobile nodes. By 2030, 5G networks will deliver the virtual reality content in VANET which will support vehicle navigation with real time communications capabilities, improving road safety and enhanced passenger comfort. In particular, the reader will learn: A range of new concepts in VANETs, integration with cloud computing and IoT, emerging wireless networking and computing models New VANET architecture, technology gap, business opportunities, future applications, worldwide applicability, challenges and drawbacks Details of the significance of 5G Networks in VANET, vehicular cloud computing, edge (fog) computing based on VANET. Audience The book will be widely used by researchers, automotive industry engineers, technology developers, system architects, IT specialists, policymakers and students.

Foundations and Frontiers in Computer, Communication and Electrical Engineering - Aritra Acharyya 2016-05-05

The 3rd International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering is a notable event which brings together academia, researchers, engineers and students in the fields of Electronics and Communication, Computer and Electrical Engineering making the conference a perfect platform to share experience, f

Technology Training for Educators From Past to Present - Krishnan, Chitra 2022-06-10

In the past decade, rapid digitalization has changed many elements of society, and

education is no exception. The tradition of teacher-centered education has been long-held in education and is still extremely well established. Due to the access of technology for knowledge and education, however, the teacher's function in many classrooms has been to advise and guide as students take greater responsibility for their own learning using technology to collect information. Schools and universities across the world are beginning to redesign their learning spaces to enable this new model of education, foster more interaction and small group work, and use technology as an enabler of knowledge. **Technology Training for Educators From Past to Present** addresses the issues facing our education systems today and the role of technology and innovation in the global transformation of education. This book focuses on the fundamental need for educators at all levels to become knowledgeable with the technological teaching and learning tools at their disposal in order to best support student learning. Covering topics such as inclusion promotion in education, technology professional development, and online learning environments, this premier reference source is a valuable resource for educational administration and faculty, educators of K-12 and higher education, educational software developers, IT consultants, pre-service teachers, libraries, teaching colleges, researchers, and academicians.

Cloud Technology: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2014-10-31

As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. **Cloud Technology: Concepts, Methodologies, Tools, and Applications** investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet's anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

Mobile Networks and Cloud Computing Convergence for Progressive Services and Applications - Rodrigues, Joel J.P.C. 2013-11-30

Recent technology trends involving the combination of mobile networks and cloud computing have offered new chances for mobile network providers to use specific carrier-cloud services. These advancements will enhance the utilization of the mobile cloud in industry and corporate settings. **Mobile Networks and Cloud Computing Convergence for Progressive Services and Applications** is a fundamental source for the advancement of knowledge, application, and practice in the interdisciplinary areas of mobile network and cloud computing. By addressing innovative concepts and critical issues, this book is essential for researchers, practitioners, and students interested in the emerging field of vehicular wireless networks.

Cloud Computing Solutions - Souvik Pal 2022-06-08

CLOUD COMPUTING SOLUTIONS The main purpose of this book is to include all the cloud-related technologies in a single platform, so that researchers, academicians, postgraduate students, and those in the industry can easily understand the cloud-based ecosystems. This book discusses the evolution of cloud computing through grid computing and cluster computing. It will help researchers and practitioners to understand grid and distributed computing cloud infrastructure, virtual machines, virtualization, live migration, scheduling techniques, auditing concept, security and privacy, business models, and case studies through the state-of-the-art cloud computing countermeasures. This book

covers the spectrum of cloud computing-related technologies and the wide-ranging contents will differentiate this book from others. The topics treated in the book include: The evolution of cloud computing from grid computing, cluster computing, and distributed systems; Covers cloud computing and virtualization environments; Discusses live migration, database, auditing, and applications as part of the materials related to cloud computing; Provides concepts of cloud storage, cloud strategy planning, and management, cloud security, and privacy issues; Explains complex concepts clearly and covers information for advanced users and beginners. Audience The primary audience for the book includes IT, computer science specialists, researchers, graduate students, designers, experts, and engineers who are occupied with research.

Converge - Ray Velez 2013-04-11

The leaders of Razorfish share their strategies for merging marketing and IT To create rich, technologically enabled experiences, enterprises need close collaboration between marketing and IT. *Converge* explains how the merging of technology, media, and creativity is revolutionizing marketing and business strategy. The CEO and CTO of Razorfish, one of the world's largest digital marketing agencies, give their unique perspective on how to thrive in this age of disruption. *Converge* shares their first-hand experience working closely with global brands—including AXE, Intel, Samsung, and Kellogg—to solve business problems at the collision point between media, technology, and marketing. With in-depth looks at cloud computing, data- and API-enabled creativity, ubiquitous computing, and more, *Converge* presents a roadmap to success. Explains how to organize for innovation within your own organization by applying the principles of agile development across your business Details how to create a religion around convergence, explaining how to tell the story throughout the organization Outlines how to adapt processes to keep up with and take advantage of rapid technological change A book by practitioners for practitioners, *Converge* is about rethinking business organizations for a new age and empowering your people to thrive in a brand, new world.

Advances in Mobile Cloud Computing and Big Data in the 5G Era - Constandinos X. Mavromoustakis 2016-11-19

This book reports on the latest advances on the theories, practices, standards and strategies that are related to the modern technology paradigms, the Mobile Cloud computing (MCC) and Big Data, as the pillars and their association with the emerging 5G mobile networks. The book includes 15 rigorously refereed chapters written by leading international researchers, providing the readers with technical and scientific information about various aspects of Big Data and Mobile Cloud Computing, from basic concepts to advanced findings, reporting the state-of-the-art on Big Data management. It demonstrates and discusses methods and practices to improve multi-source Big Data manipulation techniques, as well as the integration of resources availability through the 3As (Anywhere, Anything, Anytime) paradigm, using the 5G access technologies.

Unleashing the Power of 5GtoB in Industries - Pengfei Sun 2021-10-07

This book will delve into how new ICTs, represented by 5G, collectively empower industries from the perspective of theories and practices. 5G is integrating with cloud, intelligence, big data, and applications to push the boundaries of industries and diversify industrial services. Starting from the background and value of industry digitalization, Section I introduces the new ICT infrastructure for industry digitalization, as well as a new support system based on this infrastructure to enable 5GtoB to bring new value to industries. Section II

summarizes the success factors and four key capabilities for achieving 5GtoB success from methodological perspective. Abundant application cases are provided in Section III to explore the adoption of 5GtoB in key enterprises across industries, as well as the benefits brought to these enterprises. The final section analyzes the future evolution and applications of 5GtoB. 5G enables a plethora of possibilities. We believe that this book will inspire everyone in the 5GtoB industry chain to embrace 5GtoB and take the digital transformation of industries to new heights.

Vehicular Cloud Computing for Traffic Management and Systems - Grover, Jyoti 2018-06-22

Road accidents caused by impaired and distracted driving as well as traffic congestion are on the rise, with the numbers increasing dramatically every day. Intelligent transportation systems (ITS) aim to improve the efficiency and safety of traveling by consolidating vehicle operations, managing vehicle traffic, and notifying drivers with alerts and safety messages in real time. *Vehicular Cloud Computing for Traffic Management and Systems* provides innovative research on the rapidly advancing applications of vehicle-to-vehicle and vehicle-to-infrastructure communication. It also covers the need to fully utilize vehicular ad-hoc network (VANET) resources to provide updated and dynamic information about the conditions of road traffic so that the number of road accidents can be minimized. Featuring research on topics such as identity management, computational architecture, and resource management, this book is ideally designed for urban planners, researchers, policy makers, graduate-level students, transportation engineers, and technology developers seeking current research on vehicle computational design, architecture, security, and privacy.

U- and E-Service, Science and Technology - Tai-hoon Kim 2010-11-23

Welcome to the proceedings of the 2010 International Conference on u- and e-Service, Science and Technology (UNESST 2010) – one of the partnering events of the Second International Mega-Conference on Future Generation Information Technology (FGIT 2010). UNESST brings together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of u- and e-services and their applications, with links to computational sciences, mathematics and information technology. In total, 1,630 papers were submitted to FGIT 2010 from 30 countries, which includes 223 papers submitted to UNESST 2010. The submitted papers went through a rigorous reviewing process: 395 of the 1,630 papers were accepted for FGIT 2010, while 50 papers were accepted for UNESST 2010. Of the 50 papers 8 were selected for the special FGIT 2010 volume published by Springer in the LNCS series. 27 papers are published in this volume and 15 papers were withdrawn due to technical reasons. We would like to acknowledge the great effort of the UNESST 2010 International Advisory Board and members of the International Program Committee, as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings, including SERSC and Springer. Also, the success of the conference would not have been possible without the huge support from our sponsors and the work of the Chairs and Organizing Committee.

Cloud Data Center Network Architectures and Technologies - Lei Zhang 2021-04-23
Cloud Data Center Network Architectures and Technologies has been written with the support of Huawei's vast technical knowledge and experience in the data center network (DCN) field, as well as its understanding of customer service requirements. This book describes in detail the architecture design, technical implementation, planning and design, and deployment suggestions for cloud DCNs

based on the service challenges DCNs encounter. It starts by describing the overall architecture and technical evolution of DCNs, with the aim of helping readers understand the development of DCNs. It then proceeds to explain the design and implementation of cloud DCNs, including the service model of a single data center (DC), construction of physical and logical networks of DCs, construction of multiple DCNs, and security solutions of DCs. Next, this book dives deep into practices of cloud DCN deployment based on real-world cases to help readers better understand how to build cloud DCNs. Finally, this book introduces DCN openness and some of the hottest forward-looking technologies. In summary, you can use this book as a reference to help you to build secure, reliable, efficient, and open cloud DCNs. It is intended for technical professionals of enterprises, research institutes, information departments, and DCs, as well as teachers and students of computer network-related majors in colleges and universities. Authors Lei Zhang Mr. Zhang is the Chief Architect of Huawei's DCN solution. He has more than 20 years' experience in network product and solution design, as well as a wealth of expertise in product design and development, network planning and design, and network engineering project implementation. He has led the design and deployment of more than 10 large-scale DCNs for Fortune Global 500 companies worldwide. Le Chen Mr. Chen is a Huawei DCN Solution Documentation Engineer with eight years' experience in developing documents related to DCN products and solutions. He has participated in the design and delivery of multiple large-scale enterprise DCNs. Mr. Chen has written many popular technical document series, such as DCN Handbook and BGP Topic.

Cloud Radio Access Networks - Tony Q. S. Quek 2017-02-02

The first book on Cloud Radio Access Networks (C-RANs), covering fundamental theory, current techniques, and potential applications.

Securing Government Information and Data in Developing Countries - Zoughbi, Saleem 2017-02-27

The ongoing growth of information and communication technology is a high priority for any developing country. These advances help progress with different sectors of socio-economic development within these countries, and strengthens our global economy as a whole. *Securing Government Information and Data in Developing Countries* provides an informative examination of the latest strategies and methods for protecting government information and data within developing countries.

Presenting dynamic topics such as security-critical systems, watermarking authentication, hybrid biometrics, and e-voting systems, this publication is an ideal reference source for practitioners, academicians, students, and researchers who are interested in the emerging trends of data security for governments.

Design, Development, and Use of Secure Electronic Voting Systems - Zissis, Dimitrios 2014-03-31

In modern electoral processes, Information and Communication Technologies play a crucial role, whether used in voter registration, ballot casting, or processing of results. Securing these systems is a necessary step in ensuring the fairness of the democratic process. *Design, Development, and Use of Secure Electronic Voting Systems* analyzes current research on the integration of modern technologies with traditional democratic systems, providing a framework for designing and deploying electronic voting systems in any context or society. Stakeholders, researchers, architects, designers, and scholars interested in the use of electronic systems in government processes will use this book to gain a broader understanding of some of the latest advances in this emerging field.

Handbook of Green Information and Communication Systems - Mohammad S. Obaidat

2012-11-20

This book gives a comprehensive guide on the fundamental concepts, applications, algorithms, protocols, new trends and challenges, and research results in the area of Green Information and Communications Systems. It is an invaluable resource giving knowledge on the core and specialized issues in the field, making it highly suitable for both the new and experienced researcher in this area. Key Features: Core research topics of green information and communication systems are covered from a network design perspective, giving both theoretical and practical perspectives Provides a unified covering of otherwise disperse selected topics on green computing, information, communication and networking Includes a set of downloadable PowerPoint slides and glossary of terms for each chapter A 'whose-who' of international contributors Extensive bibliography for enhancing further knowledge Coverage includes: Smart grid technologies and communications Spectrum management Cognitive and autonomous radio systems Computing and communication architectures Data centres Distributed networking Cloud computing Next generation wireless communication systems 4G access networking Optical core networks Cooperation transmission Security and privacy Core research topics of green information and communication systems are covered from a network design perspective, giving both a theoretical and practical perspective A 'whose-who' of international contributors Extensive bibliography for enhancing further knowledge **Cross-Media Authentication and Verification: Emerging Research and Opportunities** - Katsaounidou, Anastasia 2018-07-13

As media becomes more readily available in the digital age, it also becomes more vulnerable to tampering and manipulation, making techniques for verifying reliable news and media sources essential. Understanding online technologies' role in shaping the media environment allows for insight into the correlations between the rapidly transforming media landscape and its unwanted effect on news and content tampering. *Cross-Media Authentication and Verification: Emerging Research and Opportunities* is a collection of innovative research on the methods and applications of verifying the newsgathering and publishing process. While highlighting topics including human authentication, information evaluation, and tampered content, this book is ideally designed for researchers, students, publishers, and academicians seeking current research on media authenticity and misinformation.

Software Testing in the Cloud: Perspectives on an Emerging Discipline - Tilley, Scott 2012-11-30

In recent years, cloud computing has gained a significant amount of attention by providing more flexible ways to store applications remotely. With software testing continuing to be an important part of the software engineering life cycle, the emergence of software testing in the cloud has the potential to change the way software testing is performed. *Software Testing in the Cloud: Perspectives on an Emerging Discipline* is a comprehensive collection of research by leading experts in the field providing an overview of cloud computing and current issues in software testing and system migration. Deserving the attention of researchers, practitioners, and managers, this book aims to raise awareness about this new field of study.

Cloud Computing and Virtualization - Dac-Nhuong Le 2018-03-09

The purpose of this book is first to study cloud computing concepts, security concern in clouds and data centers, live migration and its importance for cloud computing, the role of firewalls in domains with particular focus on virtual machine (VM) migration and its security concerns. The book then tackles design,

implementation of the frameworks and prepares test-beds for testing and evaluating VM migration procedures as well as firewall rule migration. The book demonstrates how cloud computing can produce an effective way of network management, especially from a security perspective.

Mobile Edge Computing - Anwasha Mukherjee 2021-11-18

Mobile Edge Computing (MEC) provides cloud-like subscription-oriented services at the edge of mobile network. For low latency and high bandwidth services, edge computing assisted IoT (Internet of Things) has become the pillar for the development of smart environments and their applications such as smart home, smart health, smart traffic management, smart agriculture, and smart city. This book covers the fundamental concept of the MEC and its real-time applications. The book content is organized into three parts: Part A covers the architecture and working model of MEC, Part B focuses on the systems, platforms, services and issues of MEC, and Part C emphasizes on various applications of MEC. This book is targeted for graduate students, researchers, developers, and service providers interested in learning about the state-of-the-art in MEC technologies, innovative applications, and future research directions.

HPC, Big Data, and AI Convergence Towards Exascale - Olivier Terzo 2022-01-14

HPC, Big Data, AI Convergence Towards Exascale provides an updated vision on the most advanced computing, storage, and interconnection technologies, that are at basis of convergence among the HPC, Cloud, Big Data, and artificial intelligence (AI) domains. Through the presentation of the solutions devised within recently founded H2020 European projects, this book provides an insight on challenges faced by integrating such technologies and in achieving performance and energy efficiency targets towards the exascale level. Emphasis is given to innovative ways of provisioning and managing resources, as well as monitoring their usage. Industrial and scientific use cases give to the reader practical examples of the needs for a cross-domain convergence. All the chapters in this book pave the road to new generation of technologies, support their development and, in addition, verify them on real-world problems. The readers will find this book useful because it provides an overview of currently available technologies that fit with the concept of unified Cloud-HPC-Big Data-AI applications and presents examples of their actual use in scientific and industrial applications.

Industrial Networks and Intelligent Systems - Trung Quang Duong 2019-09-05

This book constitutes the refereed proceedings of the 5th EAI International Conference on Industrial Networks and Intelligent Systems, INISCOM 2019, held in Ho Chi Minh City, Vietnam, in August 2019. The 25 full papers were selected from 39 submissions and are organized thematically in tracks on telecommunications systems and networks; industrial networks and applications; hardware and software design and development; information processing and data analysis; signal processing; security and privacy.

HCI Challenges and Privacy Preservation in Big Data Security - Lopez, Daphne 2017-08-10

Privacy protection within large databases can be a challenge. By examining the current problems and challenges this domain is facing, more efficient strategies can be established to safeguard personal information against invasive pressures. HCI Challenges and Privacy Preservation in Big Data Security is an informative scholarly publication that discusses how human-computer interaction impacts privacy and security in almost all sectors of modern life. Featuring relevant topics such as large scale security data, threat detection, big data encryption, and identity management, this reference source is ideal for academicians,

researchers, advanced-level students, and engineers that are interested in staying current on the advancements and drawbacks of human-computer interaction within the world of big data.

Network Security Technologies: Design and Applications - Amine, Abdelmalek 2013-11-30

Recent advances in technologies have created a need for solving security problems in a systematic way. With this in mind, network security technologies have been produced in order to ensure the security of software and communication functionalities at basic, enhanced, and architectural levels. Network Security Technologies: Design and Applications presents theoretical frameworks and the latest research findings in network security technologies while analyzing malicious threats which can compromise network integrity. This book is an essential tool for researchers and professionals interested in improving their understanding of the strategic role of trust at different levels of information and knowledge society.

Ad-Hoc, Mobile, and Wireless Networks - Luigi Alfredo Grieco 2020-10-15

This book constitutes the refereed proceedings of the 19th International Conference on Ad-Hoc, Mobile, and Wireless Networks, ADHOC-NOW 2020, held in Bari, Italy, in October 2020.* The 19 full and 4 short papers presented were carefully reviewed and selected from 39 submissions. The papers provide an in-depth and stimulating view on the new frontiers in the field of mobile, ad hoc and wireless computing. They are organized in the following topical sections: intelligent, programmable and delay- and disruption- tolerant networks; internet of drones and smart mobility; internet of things and internet of medical things; secure communication protocols and architectures; and wireless systems. *The conference was held virtually due to the COVID-19 pandemic.

Building Next-Generation Converged Networks - Al-Sakib Khan Pathan 2013-01-29

Supplying a comprehensive 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

Human Factors Engineering and Ergonomics - Stephen J. Guastello 2013-12-19

Although still true to its original focus on the person-machine interface, the field of human factors psychology (ergonomics) has expanded to include stress research, accident analysis and prevention, and nonlinear dynamical systems theory (how systems change over time), human group dynamics, and environmental psychology. Reflecting new developments in the field, Human Factors Engineering and Ergonomics: A Systems Approach, Second Edition addresses a wide range of human factors and ergonomics principles found in conventional and twenty-first century technologies and environments. Based on the author's thirty years of experience, the text emphasizes fundamental concepts, systems thinking, the changing nature of the person-machine interface, and the dynamics of systems as they change over time. See What's New in the Second Edition: Developments in working memory, degrees of freedom in cognitive processes, subjective workload, decision-making, and situation awareness Updated information on cognitive workload and fatigue Additional principles for HFE, networks, multiple person-machine systems, and human-robot swarms Accident analysis and prevention includes resilience, new developments in safety climate, and an update to the inventory of accident prevention techniques and their relative effectiveness Problems in "big data" mining Psychomotor control and its relevance to human-robot systems Navigation in

real-world environment Trust in automation and augmented cognition Computer technology permeates every aspect of the human-machine system, and has only become more ubiquitous since the previous edition. The systems are becoming more complex, so it should stand to reason that theories need to evolve to cope with the new sources of complexity. While many books cover traditional topics and theory, they do not focus on the practical problems students will face in the future. With broad coverage that ranges from physical ergonomics to cognitive aspects of human-machine interaction and includes dynamic approaches to system failure, this book increases the number of methods and analytical tools that are available for the human factors researcher.

Optical and Wireless Convergence for 5G Networks - Abdelgader M. Abdalla
2019-08-02

The mobile market has experienced unprecedented growth over the last few decades. Consumer trends have shifted towards mobile internet services supported by 3G and 4G networks worldwide. Inherent to existing networks are problems such as lack of spectrum, high energy consumption, and inter-cell interference. These limitations have led to the emergence of 5G technology. It is clear that any 5G system will integrate optical communications, which is already a mainstay of wide area networks. Using an optical core to route 5G data raises significant questions of how wireless and optical can coexist in synergy to provide smooth, end-to-end communication pathways. *Optical and Wireless Convergence for 5G Networks* explores new emerging technologies, concepts, and approaches for seamlessly integrating optical-wireless for 5G and beyond. Considering both fronthaul and backhaul perspectives, this timely book provides insights on managing an ecosystem of mixed and multiple access network communications focused on optical-wireless convergence. Topics include Fiber-Wireless (FiWi), Hybrid Fiber-Wireless (HFW), Visible Light Communication (VLC), 5G optical sensing technologies, approaches to real-time IoT applications, Tactile Internet, Fog Computing (FC), Network Functions Virtualization (NFV), Software-Defined Networking (SDN), and many others. This book aims to provide an inclusive survey of 5G optical-wireless requirements, architecture developments, and technological solutions.

Resource Management of Mobile Cloud Computing Networks and Environments - Mastorakis, George 2015-03-31

As more and more of our data is stored remotely, accessing that data wherever and whenever it is needed is a critical concern. More concerning is managing the databanks and storage space necessary to enable cloud systems. *Resource Management of Mobile Cloud Computing Networks and Environments* reports on the latest advances in the development of computationally intensive and cloud-based applications. Covering a wide range of problems, solutions, and perspectives, this book is a scholarly resource for specialists and end-users alike making use of the latest cloud technologies.

Advances in Service-Oriented and Cloud Computing - Christian Zirpins 2021-03-13

This volume contains the technical papers presented in the workshops, PhD Symposium and EU Projects Track which took place at the 8th European Conference on Service-Oriented and Cloud Computing, ESOC 2020, held in Heraklion, Crete, Greece, in September 2020: 1st International Workshop on Edge Adoption and Migration, EdgeWays 2020, 16th International Workshop on Engineering Service-Oriented Applications and Cloud Services, WESOACS 2020, ESOC 2020 PhD Symposium, ESOC 2020 EU Projects Track. Due to the COVID-19 pandemic the conference and workshops were held in a virtual format. The 17 full papers and 2 short papers were reviewed and selected from 22 submissions. The papers focus on specific

topics in service-oriented and cloud computing domains such as limits and/or advantages of existing cloud solutions, future internet technologies, efficient and adaptive deployment and management of service-based applications across multiple clouds, novel cloud service migration practices and solutions, digitization of enterprises in the cloud computing era, federated cloud networking services.

Social Media and the Transformation of Interaction in Society - Sahlin, John P.
2015-09-21

The availability of various technological platforms enables individuals to feel a deeper sense of connectivity and contribution to their social circles and the world around them. This growing dependence on social networking platforms has altered the ways in which society functions and communicates. *Social Media and the Transformation of Interaction in Society* is a definitive reference source for timely scholarly research evaluating the impact of social networking platforms on a variety of relationships, including those between individuals, governments, citizens, businesses, and consumers. Featuring expansive coverage on a range of topics relating to social media applications and uses across industries, this publication is a critical reference source for professionals, educators, students, and academicians seeking current research on the role and impact of new media on modern society. This publication features authoritative, research-based chapters across a range of relevant topics including, but not limited to, computer-mediated communication, nonprofit projects, disaster response management, education, cyberbullying, microblogging, digital paranoia, user interaction augmentation, and viral messaging.

Cloud Based 5G Wireless Networks - Yin Zhang 2016-11-09

This SpringerBrief introduces key techniques for 5G wireless networks. The authors cover the development of wireless networks that led to 5G, and how 5G mobile communication technology (5G) can no longer be defined by a single business model or a typical technical characteristic. The discussed networks functions and services include Network Foundation Virtualization (N-FV), Cloud Radio Access Networks (Cloud-RAN), and Mobile Cloud Networking (MCN). The benefits of cloud platforms are examined, as are definable networking and green wireless networking. Other related and representative projects on 5G are mobile and wireless communications enablers for the Twenty-Twenty Information Society, Multi-hop Cellular Networks, Network Function as-a-Service over Virtualized Infrastructures, iJOIN, and Nuage Virtualized Services Platform. Major applications of 5G range from RAN sharing and Multi-Operator Core Networks to mobile convergence. Enhancing the user experience by providing smart and customized services, 5G will support the explosive growth of big data, mobile internet, digital media, and system efficiency. This SpringerBrief is designed for professionals, researchers, and academics working in networks or system applications. Advanced-level students of computer science or computer engineering will also find the content valuable.

New Perspectives on Computer Concepts 2014: Comprehensive - June Jamrich Parsons
2014-02-01

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Security Management in Mobile Cloud Computing - Munir, Kashif 2016-08-01
Mobile Cloud Computing (MCC) has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern and

developing effective methods to protect sensitive information and data on the cloud is imperative. Security Management in Mobile Cloud Computing explores the difficulties and challenges of securing user data and information on mobile cloud platforms. Investigating a variety of protocols and architectures that can be used to design, create, and develop security mechanisms, this publication is an essential resource for IT specialists, researchers, and graduate-level students interested in mobile cloud computing concepts and security.