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CLARK TRISTIAN

Advanced Information Networking and Applications John Wiley & Sons

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Cabling Part 1 Cambridge University Press

This book provides an in-depth look into recent advances in relation to novel design strategies and algorithms to improve performance and functionality of WMNs. Ten contributed chapters written by a group of well-known experts in wireless mesh networking are arranged in two parts. The first part of the book focuses on link scheduling schemes to select a subset of links for simultaneous transitions under interference constraints in an efficient and fair manner to guarantee a certain level of network connectivity. Besides, it describes channel assignment strategies to improve the network throughput in multi-radio multi-channel WMNs by means of an efficient channel utilization and minimization of the interference. The second part of the book addresses some important network planning issues related to efficient routing protocols in dynamic large-scale mesh environment, achievable capacity limit of a single wireless link between two multi-interface mesh nodes, the correctness of the mesh security architecture, fault-tolerant mesh network topology planning.

An Interactive Streaming System for Image-based Virtual Environments Over Heterogeneous Wired-wireless Networks John Wiley & Sons

This book constitutes the proceedings of the 4th International Conference on 6G for Future Wireless Networks, 6GN 2021, held in Huizhou, China, in October 2021. The 63 full papers were selected from 136 submissions and present the state of the

art and practical applications of 6G technologies. The papers are arranged thematically in tracks as follows: Advanced Communication and Networking Technologies for 5G/6G Networks; Advanced Signal Processing Technologies for 5G/6G Networks; and Educational Changes in The Age of 5G/6G.

Handbook of Research on the IoT, Cloud Computing, and Wireless

Network Optimization Springer Nature
SOCIAL NETWORK ANALYSIS As social media dominates our lives in increasing intensity, the need for developers to understand the theory and applications is ongoing as well. This book serves that purpose. Social network analysis is the solicitation of network science on social networks, and social occurrences are denoted and premeditated by data on coinciding pairs as the entities of opinion. The book features: Social network analysis from a computational perspective using python to show the significance of fundamental facets of network theory and the various metrics used to measure the social network. An understanding of network analysis and motivations to model phenomena as networks. Real-world networks established with human-related data frequently display social properties, i.e., patterns in the graph from which human behavioral patterns can be analyzed and extracted. Exemplifies information cascades that spread through an underlying social network to achieve widespread adoption. Network analysis that offers an appreciation method to health systems and services to illustrate, diagnose, and analyze networks in health systems. The social web has developed a significant social and interactive data source that pays exceptional attention to social science and humanities research. The benefits of artificial intelligence enable social media platforms to meet an increasing number of users and yield the biggest marketplace, thus helping social networking analysis distribute better customer understanding and aiding marketers to target the right customers. Audience The book will interest computer scientists, AI researchers, IT and software engineers, mathematicians.

Network World Springer Science & Business Media

This book constitutes the refereed proceedings of the 16th International Conference on Engineering Applications of Neural Networks, EANN 2015, held in Rhodes, Greece, in September 2015. The 36 revised full papers presented together with the abstracts of three invited talks and two tutorials were carefully reviewed and selected from 84 submissions. The papers are organized in topical sections on industrial-engineering applications of ANN; bioinformatics; intelligent medical modeling; life-earth sciences intelligent modeling; learning-algorithms; intelligent telecommunications modeling; fuzzy modeling; robotics and control; smart cameras; pattern recognition-facial mapping; classification; financial intelligent modeling; echo state networks.

Social Network Analysis Elsevier

This book constitutes the thoroughly refereed proceedings of the 12th International Conference on Ad-hoc, Mobile, and Wireless Networks, ADHOC-NOW 2013, held in Wroclaw, Poland, in July 2013. The 27 revised full papers presented were carefully reviewed and selected from 56 submissions. The papers address such diverse topics as routing, rumor spreading, reliability, topology control, security aspects, and the impact of mobility. Some of the papers contain precise analytical results while other ones are devoted to solving specific practical problems of implementation and deployment.

Engineering Applications of Neural Networks IGI Global

Over the past decade, there has been a prolific increase in the research, development and commercialisation of Wireless Sensor Networks (WSNs) and their associated technologies. WSNs have found application in a vast range of different domains, scenarios and disciplines. These have included healthcare, defence and security, environmental monitoring and building/structural health monitoring. However, as a result of the broad array of pertinent applications, WSN researchers have also realised the application specificity of the domain; it is incredibly

difficult, if not impossible, to find an application-independent solution to most WSN problems. Hence, research into WSNs dictates the adoption of an application-centric design process. This book is not intended to be a comprehensive review of all WSN applications and deployments to date. Instead, it is a collection of state-of-the-art research papers discussing current applications and deployment experiences, but also the communication and data processing technologies that are fundamental in further developing solutions to applications. Whilst a common foundation is retained through all chapters, this book contains a broad array of often differing interpretations, configurations and limitations of WSNs, and this highlights the diversity of this ever-changing research area. The chapters have been categorised into three distinct sections: applications and case studies, communication and networking, and information and data processing. The readership of this book is intended to be postgraduate/postdoctoral researchers and professional engineers, though some of the chapters may be of relevance to interested masters level students.

Wireless Sensor and Actor Networks
Springer Nature

This book presents the proceedings of the first IFIP WG 6.8 conference on Wireless Sensor and Actor Networks held in Albacete, Spain. The papers selected to be included in this volume illustrate the state-of-the-art and current trends in the area of wireless sensor and actor networks. The comprehensive program was organized into eight topics: Actors; Applications; Security; Energy; Quality of Service; Localization; Middleware; Protocols.

ICT Education Springer

This book constitutes the refereed proceedings of the 48th Annual Conference of the Southern African Computer Lecturers' Association on ICT Education, SACLA 2019, held in Northern Drakensberg, South Africa, in July 2019. The 16 revised full papers presented were carefully reviewed and selected from 57 submissions. The papers are organized in following topical sections: computer programming education; system security education; software engineering education; education of post-graduate research-students; our students, our profession.

Intelligent Vehicular Networks and Communications Springer Nature

ICT technologies have contributed to the advances in wireless systems, which provide seamless connectivity for worldwide communication. The growth of interconnected devices and the need to

store, manage, and process the data from them has led to increased research on the intersection of the internet of things and cloud computing. The Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization is a pivotal reference source that provides the latest research findings and solutions for the design and augmentation of wireless systems and cloud computing. The content within this publication examines data mining, machine learning, and software engineering, and is designed for IT specialists, software engineers, researchers, academicians, industry professionals, and students.

Network World Springer Nature

This book constitutes the thoroughly refereed proceedings of the fourth International Conference on Ad Hoc Networks, ADHOCNETS 2012, held in Paris, France, in October 2012. The 18 revised full papers presented were carefully selected and reviewed from 43 submissions. These – and 6 invited papers now cover an even broader scope, referring to many types of autonomous wireless networks designed and deployed for a specific task or function, such as wireless sensor networks, vehicular networks, and home networks. They are organized in topical sections on MAC and PHY layers, localization and position-based protocols in WSNs, resource allocations and cognitive radio, key, service and caching management, network architectures and frameworks, and mobility and disconnection management.

Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks
BoD – Books on Demand

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Frontiers of Multimedia Research John Wiley & Sons

Wireless sensor networks have gained significant attention industrially and academically due to their wide range of uses in various fields. Because of their vast amount of applications, wireless sensor networks are vulnerable to a variety of security attacks. The protection of wireless sensor networks remains a challenge due to their resource-constrained nature, which is why researchers have begun applying several

branches of artificial intelligence to advance the security of these networks. Research is needed on the development of security practices in wireless sensor networks by using smart technologies. Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks provides emerging research exploring the theoretical and practical advancements of security protocols in wireless sensor networks using artificial intelligence-based techniques. Featuring coverage on a broad range of topics such as clustering protocols, intrusion detection, and energy harvesting, this book is ideally designed for researchers, developers, IT professionals, educators, policymakers, practitioners, scientists, theorists, engineers, academicians, and students seeking current research on integrating intelligent techniques into sensor networks for more reliable security practices.

Positioning in Wireless

Communications Systems BoD – Books on Demand

This book constitutes the refereed proceedings of the 9th International Conference on Ad-Hoc, Mobile, and Wireless Networks, ADHOC-NOW 2010, held in Edmonton, Canada, in August 2010. The 16 revised full papers were carefully reviewed and selected from 43 submissions. The accepted papers cover topics in routing/broadcasting/multicasting protocols; energy efficiency; sensor coverage; scheduling algorithms; localization; mobility modeling; data collection and processing; and vehicular networks.

Wireless Networks and Security IGI Global
Sensor networks are an essential component of the Internet of Things (IoT), and Multimedia Sensor Networks (MSNs) are the most important emerging area in sensor networks. However, multimedia sensing is characterized by diversified modes, large volumes of data, considerable heterogeneity, and complex computing, as a result of which the theory and methods for traditional sensor networks can't be applied to MSNs. Based on the authors' years of systematic research on related theory and methods, this book provides a comprehensive review of MSNs. The coverage ranges from networked sensing and fusion-based transmission, to route discovery and in-network computing. The book presents the most important scientific discoveries and fundamental theories on MSNs, while also exploring practical approaches and typical applications. Given its scope, it is especially suitable for students, researchers and practitioners interested in understanding scientific problems involved

in characterizing multimedia sensing features, revealing the transmission mechanisms of MSNs, and constructing efficient in-network multimedia computing paradigms. In this book, readers will learn essential methods for achieving the optimal deployment of, efficient and reliable transmission, and timely information processing in MSNs.

Proceeding of 2021 International Conference on Wireless Communications, Networking and Applications Springer

Providing a complete description of modern tactical military communications and networks technology, this book systematically compares tactical military communications techniques with their commercial equivalents, pointing out similarities and differences. In particular it examines each layer of the protocol stack and shows how specific tactical and security requirements result in changes from the commercial approach. The author systematically leads readers through this complex topic, firstly providing background on the architectural approach upon which the analysis will be based, and then going into detail on tactical wireless communications and networking technologies and techniques. Structured progressively: for readers needing an overall view; for those looking at the communications aspects (lower layers of the protocol stack); and for users interested in the networking aspects (higher layers of the protocol stack) Presents approaches to alleviate the challenges faced by the engineers in the field today Furnished throughout with illustrations and case studies to clarify the notional and architectural approaches Includes a list of problems for each chapter to emphasize the important aspects of the topics covered Covers the current state of tactical networking as well as the future long term evolution of tactical wireless communications and networking in the next 50 years Written at an advanced level with scope as a reference tool for engineers and scientists as well as a graduate text for advanced courses

6GN for Future Wireless Networks Elsevier
Positioning in Wireless Communications Systems explains the principal differences and similarities of wireless communications systems and navigation systems. It discusses scenarios which are critical for dedicated navigation systems such as the Global Positioning System (GPS) and which motivate the use of positioning based on terrestrial wireless communication systems. The book introduces approaches for determination

of parameters which are dependent on the position of the mobile terminal and also discusses iterative algorithms to estimate and track the position of the mobile terminal. Models for radio propagation and user mobility are important for performance investigations and assessments using computer simulations. Thus, channel and mobility models are explored, especially focussing on critical navigation environments like urban or indoor scenarios. Positioning in Wireless Communications Systems examines advanced algorithms such as hybrid data fusion of satellite navigation and positioning with wireless communications and cooperative positioning among mobile terminals.. The performance of the discussed positioning techniques are explored on the basis of already existing and operable terrestrial wireless communication systems such as GSM, UMTS, or LTE and it is shown how positioning issues are fixed in respective standards. Written by industry experts working at the cutting edge of technological development, the authors are well placed to give an excellent view on this topic, enabling in-depth coverage of current developments. Key features • Unique in its approach to dealing with a heterogeneous system approach, different cell structures and signal proposals for future communications systems • Covers hybrid positioning investigating how GNSS and wireless communications positioning complement each other • Applications and exploitation of positioning information are discussed to show the benefits of including this information in several parts of a wireless communications system
Cabling Springer

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Handbook of Research on Mobility and Computing: Evolving Technologies and Ubiquitous Impacts

Springer Science & Business Media
This proceedings book covers the theory, design and applications of computer networks, distributed computing and information systems. Today's networks are evolving rapidly, and there are several developing areas and applications. These include heterogeneous networking supported by recent technological

advances in power wireless communications, along with silicon integration of various functionalities such as sensing, communications, intelligence and actuations, which is emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enables novel, low-cost and high-volume applications. However, implementing these applications has sometimes been difficult due to interconnection problems. As such, different networks need to collaborate, and wired and next-generation wireless systems need to be integrated in order to develop high-performance computing solutions to address the problems arising from these networks' complexities. This ebook presents the latest research findings, as well as theoretical and practical perspectives on the innovative methods and development techniques related to the emerging areas of information networking and applications
Network World Springer

Adaptive techniques play a key role in modern wireless communication systems. The concept of adaptation is emphasized in the Adaptation in Wireless Communications Series through a unified framework across all layers of the wireless protocol stack ranging from the physical layer to the application layer, and from cellular systems to next-generation wireless networks. Adaptation and Cross Layer Design in Wireless Networks is devoted to adaptation in the data link layer, network layer, and application layer. The book presents state-of-the-art adaptation techniques and methodologies, including cross-layer adaptation, joint signal processing, coding and networking, selfishness in mobile ad hoc networks, cooperative and opportunistic protocols, adaptation techniques for multimedia support, self-organizing routing, and tunable security services. It presents several new theoretical paradigms and analytical findings which are supported with various simulation and experimental results. Adaptation in wireless communications is needed in order to achieve high capacity and ubiquitous communications. The current trend in wireless communication systems is to make adaptation dependent upon the state of the relevant parameters in all layers of the system. Focusing on simplified cross layer design approaches, this volume describes advanced techniques such as adaptive resource management, adaptive modulation and coding, 4G communications, QoS, diversity combining, and energy and mobility aware MAC protocols. The first volume in the

series, Adaptive Signal Processing in

Wireless Communications (cat no.46012)
covers adaptive signal processing at the

physical layer.