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# Proceedings of Third International Conference on Computing and Communication Networks

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# Networks Proceedings

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Ashok,Anil Kumar Bisht,Raksh Pal  
Singh Gangwar**

## **Networks Proceedings:**

**Handbook On Sensor Networks** Yang Xiao,Hui Chen, Frank Haizhon Li,2010-08-30 Sensor networks have many interesting applications with great utility however their actual deployment and realization rely on continuous innovations and solutions to many challenging problems Thus sensor networks have recently attracted the attention of many researchers and practitioners The compilation of the Handbook on Sensor Networks will meet the demand of the sensor network community for a comprehensive reference and summary of the current state of the area The Handbook on Sensor Networks is a collection of approximately 40 chapters on sensor network theory and applications The book spans a wide spectrum and includes topics in medium access control routing security and privacy coverage and connectivity modeling and simulations multimedia energy efficiency localization and tracking design and implementation as well as sensor network applications

**Ad Hoc and Sensor Networks** Carlos de Moraes Cordeiro,Dharma Prakash Agrawal,2011 This book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field It emphasizes that there is a major interdependence among various layers of the network protocol stack Contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer All existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies To fully understand these intriguing networks one needs to grasp specific solutions individually and also the many interdependencies and cross layer interactions

**Simulation Technologies in Networking and Communications** Al-Sakib Khan Pathan,Muhammad Mostafa Monowar,Shafiullah Khan,2014-11-06 Simulation is a widely used mechanism for validating the theoretical models of networking and communication systems Although the claims made based on simulations are considered to be reliable how reliable they really are is best determined with real world implementation trials Simulation Technologies in Networking and Communications Selecting the Best Tool for the Test addresses the spectrum of issues regarding the different mechanisms related to simulation technologies in networking and communications fields Focusing on the practice of simulation testing instead of the theory it presents the work of more than 50 experts from around the world Considers super-efficient Monte Carlo simulations Describes how to simulate and evaluate multicast routing algorithms Covers simulation tools for cloud computing and broadband passive optical networks Reports on recent developments in simulation tools for WSNs Examines modeling and simulation of vehicular networks The book compiles expert perspectives about the simulation of various networking and communications technologies These experts review and evaluate popular simulation modeling tools and recommend the best tools for your specific tests They also explain how to determine when theoretical modeling would be preferred over simulation This book does not provide a verdict on the best suitable tool for simulation Instead it supplies

authoritative analyses of the different kinds of networks and systems Presenting best practices and insights from global experts the book provides you with an understanding of what to simulate where to simulate whether to simulate or not when to simulate and how to simulate for a wide range of issues     Wireless Mesh Networking Yan Zhang,Jijun Luo,Honglin Hu,2006-12-13 A promising new technology wireless mesh networks are playing an increasingly important role in the future generations of wireless mobile networks Characterized by dynamic self organization self configuration and self healing to enable quick deployment easy maintenance low cost high scalability and reliable services this technology is beco

**Advanced Wireless Networks** Savo G. Glisic,2016-07-22 The third edition of this popular reference covers enabling technologies for building up 5G wireless networks Due to extensive research and complexity of the incoming solutions for the next generation of wireless networks it is anticipated that the industry will select a subset of these results and leave some advanced technologies to be implemented later This new edition presents a carefully chosen combination of the candidate network architectures and the required tools for their analysis Due to the complexity of the technology the discussion on 5G will be extensive and it will be difficult to reach consensus on the new global standard The discussion will have to include the vendors operators regulators as well as the research and academic community in the field Having a comprehensive book will help many participants to join actively the discussion and make meaningful contribution to shaping the new standard

**From Sociology to Computing in Social Networks** Nasrullah Memon,Reda Alhajj,2010-08-26 Important aspects of social networking analysis are covered in this work by combining experimental and theoretical research A specific focus is devoted to emerging trends and the industry needs associated with utilizing data mining techniques Some of the techniques covered include data mining advances in the discovery and analysis of communities in the personalization of solitary activities like searches and social activities like discovering potential friends in the analysis of user behavior in open fora like conventional sites blogs and fora and in commercial platforms like e auctions and in the associated security and privacy preservation challenges as well as social network modeling scalable customizable social network infrastructure construction and the identification and discovery of dynamic growth and evolution patterns using machine learning approaches or multi agent based simulation These topics will be of interest to practitioners and researchers alike in this dynamic and growing field

*Wireless Sensor and Actuator Networks* Amiya Nayak,Ivan Stojmenovic,2010-01-26 This timely book offers a mixture of theory experiments and simulations that provides qualitative and quantitative insights in the field of sensor and actuator networking The chapters are selected in a way that makes the book comprehensive and self contained It covers a wide range of recognized problems in sensor networks striking a balance between theoretical and practical coverage The book is appropriate for graduate students and practitioners working as engineers programmers and technologists

*Wireless Sensor Networks* Ibrahiem M. M. El Emary,S. Ramakrishnan,2013-08-28 Although there are many books available on WSNs most are low level introductory books The few available for advanced readers fail to convey the breadth of

knowledge required for those aiming to develop next generation solutions for WSNs Filling this void Wireless Sensor Networks From Theory to Applications supplies comprehensive coverage of WSNs In order to provide the wide ranging guidance required the book brings together the contributions of domain experts working in the various subfields of WSNs worldwide This edited volume examines recent advances in WSN technologies and considers the theoretical problems in WSN including issues with monitoring routing and power control It also details methodologies that can provide solutions to these problems The book s 25 chapters are divided into seven parts Data Collection Physical Layer and Interfacing Routing and Transport Protocols Energy Saving Approaches Mobile and Multimedia WSN Data Storage and Monitoring Applications The book examines applications of WSN across a range of fields including health military transportation and mining Addressing the main challenges in applying WSNs across all phases of our life it explains how WSNs can assist in community development Complete with a list of references at the end of each chapter this book is ideal for senior undergraduate and postgraduate students researchers scholars academics industrial researchers and practicing engineers working on WSNs The text assumes that readers possess a foundation in computer networks wireless communication and basic electronics

Green Heterogeneous Wireless Networks Muhammad Ismail,Muhammad Zeeshan Shakir,Khalid A. Qaraqe,Erchin Serpedin,2016-08-12 This book focuses on the emerging research topic green energy efficient wireless networks which has drawn huge attention recently from both academia and industry This topic is highly motivated due to important environmental financial and quality of experience QoE considerations Specifically the high energy consumption of the wireless networks manifests in approximately 2% of all CO2 emissions worldwide This book presents the authors visions and solutions for deployment of energy efficient green heterogeneous wireless communication networks The book consists of three major parts The first part provides an introduction to the green networks concept the second part targets the green multi homing resource allocation problem and the third chapter presents a novel deployment of device to device D2D communications and its successful integration in Heterogeneous Networks HetNets The book is novel in that it specifically targets green networking in a heterogeneous wireless medium which represents the current and future wireless communication medium faced by the existing and next generation communication networks The book focuses on multi homing resource allocation exploiting network cooperation and integrating different and new network technologies radio frequency and VLC expanding the network coverage and integrating new device centric communication paradigms such as D2D Communications Whilst the book discusses a significant research topic supported with advanced mathematical analysis the resulting algorithms and solutions are explained and summarized in a way that is easy to follow and grasp This book is suitable for networking and telecommunications engineers researchers in industry and academia as well as students and instructors

**Distributed Sensor Networks** S. Sitharama Iyengar,Richard R. Brooks,2016-04-19 The best selling Distributed Sensor Networks became the definitive guide to understanding this far reaching technology Preserving the

excellence and accessibility of its predecessor Distributed Sensor Networks Second Edition once again provides all the fundamentals and applications in one complete self contained source Ideal as a tutorial for Autonomic Computing and Networking Mieso Denko, Laurence Tianruo Yang, Yan Zhang, 2009-06-12 Autonomic Computing and Networking presents introductory and advanced topics on autonomic computing and networking with emphasis on architectures protocols services privacy security simulation and implementation testbeds Autonomic computing and networking are new computing and networking paradigms that allow the creation of self managing and self controlling computing and networking environments using techniques such as distributed algorithms and context awareness to dynamically control networking functions without human interventions Autonomic networking is characterized by recovery from failures and malfunctions agility to changing networking environment self optimization and self awareness The self control and management features can help to overcome the growing complexity and heterogeneity of exiting communication networks and systems The realization of fully autonomic heterogeneous networking introduces several research challenges in all aspects of computing and networking and related fields Handbook of Algorithms for Wireless Networking and Mobile Computing Azzedine Boukerche, 2005-11-28 The Handbook of Algorithms for Wireless Networking and Mobile Computing focuses on several aspects of mobile computing particularly algorithmic methods and distributed computing with mobile communications capability It provides the topics that are crucial for building the foundation for the design and construction of future generations of mobile and wireless networks including cellular wireless ad hoc sensor and ubiquitous networks Following an analysis of fundamental algorithms and protocols the book offers a basic overview of wireless technologies and networks Other topics include issues related to mobility aspects of QoS provisioning in wireless networks future applications and much more **Social Networking** Mrutyunjaya Panda, Satchidananda Dehuri, Gi-Nam Wang, 2014-07-08 With the proliferation of social media and on line communities in networked world a large gamut of data has been collected and stored in databases The rate at which such data is stored is growing at a phenomenal rate and pushing the classical methods of data analysis to their limits This book presents an integrated framework of recent empirical and theoretical research on social network analysis based on a wide range of techniques from various disciplines like data mining social sciences mathematics statistics physics network science machine learning with visualization techniques and security The book illustrates the potential of multi disciplinary techniques in various real life problems and intends to motivate researchers in social network analysis to design more effective tools by integrating swarm intelligence and data mining *Security Issues for Wireless Sensor Networks* Parag Verma, Ankur Dumka, Anuj Bhardwaj, Navneet Kaur, Alaknanda Ashok, Anil Kumar Bisht, Raksh Pal Singh Gangwar, 2022-04-19 Wireless sensor networks WSNs have attracted high interest over the last few decades in the wireless and mobile computing research community Applications of WSNs are numerous and growing including indoor deployment scenarios in the home and office to outdoor deployment in an adversary s territory in a tactical background However due to their distributed nature and

deployment in remote areas these networks are vulnerable to numerous security threats that can adversely affect their performance This problem is more critical if the network is deployed for some mission critical applications such as in a tactical battlefield Random failure of nodes is also very likely in real life deployment scenarios Due to resource constraints in the sensor nodes a traditional security mechanism with high overhead of computation and communication is not feasible in WSNs Design and implementation of secure WSNs is therefore a particularly challenging task This book covers a comprehensive discussion on state of the art security technologies for WSNs It identifies various possible attacks at different layers of the communication protocol stack in a typical WSN and presents their possible countermeasures A brief discussion on the future direction of research in WSN security is also included

#### **A Complete Guide to Wireless Sensor Networks**

Ankur Dumka, Sandip K. Chaurasiya, Arindam Biswas, Hardwari Lal Mandoria, 2019-05-31 This book provides comprehensive coverage of the major aspects in designing implementing and deploying wireless sensor networks by discussing present research on WSNs and their applications in various disciplines It familiarizes readers with the current state of WSNs and how such networks can be improved to achieve effectiveness and efficiency It starts with a detailed introduction of wireless sensor networks and their applications and proceeds with layered architecture of WSNs It also addresses prominent issues such as mobility heterogeneity fault tolerance intermittent connectivity and cross layer optimization along with a number of existing solutions to stimulate future research

*Telecommunications and Networking* Udo W. Pooch, 2018-05-04 As the dividing line between traditional computing science and telecommunications quickly becomes blurred or disappears in today's rapidly changing environment there is an increasing need for computer professionals to possess knowledge of telecommunications principles *Telecommunications and Networking* presents a comprehensive overview of the interaction and relationship between telecommunications and data processing The book's early chapters cover basic telecommunications vocabulary common nomenclature telecommunications fundamentals as well as the important relationships among coding error detection and correction and noise Later chapters discuss such topics as switching timing topological structures routing algorithms and teleprocessing Other topics covered in detail include specific concerns inherent to computer communications such as protocols error detection and correction network monitoring and security and system validation System designers and programmers can no longer be effective simply by understanding the tradeoffs between hardware and software *Telecommunications and Networking* provides both computing professionals and students the fundamental computer communications concepts necessary to function in today's computer industry

#### **Game Theory for Wireless**

*Communications and Networking* Yan Zhang, MOHSEN GUIZANI, 2011-06-21 Used to explain complicated economic behavior for decades game theory is quickly becoming a tool of choice for those serious about optimizing next generation wireless systems Illustrating how game theory can effectively address a wide range of issues that until now remained unresolved *Game Theory for Wireless Communications and Networking* provides a systematic introduction to the application of this

powerful and dynamic tool This comprehensive technical guide explains game theory basics architectures protocols security models open research issues and cutting edge advances and applications It describes how to employ game theory in infrastructure based wireless networks and multihop networks to reduce power consumption while improving system capacity decreasing packet loss and enhancing network resilience Providing for complete cross referencing the text is organized into four parts Fundamentals introduces the fundamental issues and solutions in applying different games in different wireless domains including wireless sensor networks vehicular networks and OFDM based wireless systems Power Control Games considers issues and solutions in power control games Economic Approaches reviews applications of different economic approaches including bargaining and auction based approaches Resource Management explores how to use the game theoretic approach to address radio resource management issues The book explains how to apply the game theoretic model to address specific issues including resource allocation congestion control attacks routing energy management packet forwarding and MAC Facilitating quick and easy reference to related optimization and algorithm methodologies it supplies you with the background and tools required to use game theory to drive the improvement and development of next generation wireless systems

**Advances in Network Clustering and Blockmodeling** Patrick Doreian, Vladimir Batagelj, Anuska Ferligoj, 2019-11-20 Provides an overview of the developments and advances in the field of network clustering and blockmodeling over the last 10 years This book offers an integrated treatment of network clustering and blockmodeling covering all of the newest approaches and methods that have been developed over the last decade Presented in a comprehensive manner it offers the foundations for understanding network structures and processes and features a wide variety of new techniques addressing issues that occur during the partitioning of networks across multiple disciplines such as community detection blockmodeling of valued networks role assignment and stochastic blockmodeling Written by a team of international experts in the field Advances in Network Clustering and Blockmodeling offers a plethora of diverse perspectives covering topics such as bibliometric analyses of the network clustering literature clustering approaches to networks label propagation for clustering and treating missing network data before partitioning It also examines the partitioning of signed networks multimode networks and linked networks A chapter on structured networks and coarsegrained descriptions is presented along with another on scientific coauthorship networks The book finishes with a section covering conclusions and directions for future work In addition the editors provide numerous tables figures case studies examples datasets and more Offers a clear and insightful look at the state of the art in network clustering and blockmodeling Provides an excellent mix of mathematical rigor and practical application in a comprehensive manner Presents a suite of new methods procedures algorithms for partitioning networks as well as new techniques for visualizing matrix arrays Features numerous examples throughout enabling readers to gain a better understanding of research methods and to conduct their own research effectively Written by leading contributors in the field of spatial networks analysis Advances in Network Clustering and

Blockmodeling is an ideal book for graduate and undergraduate students taking courses on network analysis or working with networks using real data. It will also benefit researchers and practitioners interested in network analysis.

**Network Intrusion Detection and Prevention** Ali A. Ghorbani, Wei Lu, Mahbod Tavallaee, 2009-10-10. Network Intrusion Detection and Prevention: Concepts and Techniques provides detailed and concise information on different types of attacks, the theoretical foundation of attack detection approaches, implementation, data collection, evaluation, and intrusion response. Additionally, it provides an overview of some of the commercially publicly available intrusion detection and response systems. On the topic of intrusion detection system, it is impossible to include everything there is to say on all subjects. However, we have tried to cover the most important and common ones. Network Intrusion Detection and Prevention: Concepts and Techniques is designed for researchers and practitioners in industry. This book is suitable for advanced level students in computer science as a reference book as well.

**Cooperative Networking** Mohammad S. Obaidat, Sudip Misra, 2011-08-15. This book focuses on the latest trends and research results in Cooperative Networking. This book discusses the issues involved in cooperative networking, namely, bottleneck resource management, resource utilization, servers, and content security, and so on. In addition, the authors address instances of cooperation in nature which actively encourage the development of cooperation in telecommunication networks. Following an introduction to the fundamentals and issues surrounding cooperative networking, the book addresses models of cooperation, inspirations of successful cooperation from nature and society, cooperation in networking for e.g. Peer-to-Peer, wireless ad hoc, and sensor, client-server, and autonomous vehicular networks, cooperation and ambient networking, cooperative caching, cooperative networking for streaming media, content, optimal node task allocation, heterogeneity issues in cooperative networking, cooperative search in networks, and security and privacy issues with cooperative networking. It contains contributions from high profile researchers and is edited by leading experts in this field.

**Key Features:** Focuses on higher layer networking. Addresses the latest trends and research results. Covers fundamental concepts, models, advanced topics, and performance issues in cooperative networking. Contains contributions from leading experts in the field. Provides an insight into the future direction of cooperative networking. Includes an accompanying website containing PowerPoint slides and a glossary of terms. [www.wiley.com/go/obaidat\\_cooperative](http://www.wiley.com/go/obaidat_cooperative). This book is an ideal reference for researchers and practitioners working in the field. It will also serve as an excellent textbook for graduate and senior undergraduate courses in computer science, computer engineering, electrical engineering, software engineering, and information engineering and science.

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