

Secure Broadcast Communication: In Wired and Wireless Networks

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Secure Broadcast Communication

Mohammad A Matin



Secure Broadcast Communication:

Secure Broadcast Communication Adrian Perrig, J.D. Tygar, 2012-12-06 Secure Broadcast Communication in Wired and Wireless Networks presents a set of fundamental protocols for building secure information distribution systems Applications include wireless broadcast IP multicast sensor networks and webs ad hoc networks and satellite broadcast This book presents and compares new techniques for basic operations including key distribution for access control source authentication of transmissions and non repudiation of streams This book discusses how to realize these operations both with high performance processors and resource constrained processors It shows how to protect against adversaries who inject packets or eavesdrop The focus is on functional descriptions rather than theoretical discussions Protocols are presented as basic building blocks that can be combined with each other and traditional security protocols The book illustrates these protocols in practice by presenting a real implementation that provides security for an ad hoc sensor network This book can serve as a textbook or supplementary reading in graduate level courses on security or networking or can be used for self study

Formal Aspects in Security and Trust Joshua D. Guttman, 2009-04-09 This book constitutes the thoroughly refereed post workshop proceedings of the 5th International Workshop on Formal Aspects in Security and Trust FAST 2008 held under the auspices of IFIP WG 1.7 in Malaga Spain in October 2008 as a satellite event of 13th European Symposium on Research in Computer Security The 20 revised papers presented were carefully reviewed and selected from 59 submissions The papers focus on formal aspects in security trust and reputation security protocol design and analysis logics for security and trust trust based reasoning distributed trust management systems digital asset protection data protection privacy and id management issues information flow analysis language based security security and trust aspects in ubiquitous computing validation analysis tools Web grid services security trust privacy security and risk assessment resource and access control as well as case studies

Securing Wireless Communications at the Physical Layer Ruoheng Liu, Wade Trappe, 2009-12-01 This book focuses specifically on physical layer security a burgeoning topic in security It consists of contributions from the leading research groups in this emerging area and for the first time important high impact results are collected together

Secure Group Communications Over Data Networks Xukai Zou, Byrav Ramamurthy, Spyros S. Magliveras, 2007-03-06 The ubiquitous nature of the Internet is enabling a new generation of pUcations to support collaborative work among geographically distant users Security in such an environment is of utmost importance to safeguard the privacy of the communication and to ensure the integrity of the applications Secure group communications SGC refers to a scenario in which a group of participants can receive and send messages to group members in a way that outsiders are unable to glean any information even when they are able to intercept the messages SGC is becoming extremely important for researchers and practitioners because many applications that require SGC are now widely used such as teleconferencing tele medicine real time information services distributed interactive simulations collaborative work grid computing and the deployment of

VPN Virtual Private Networks Even though considerable research accomplishments have been achieved in SGC few books exist on this very important topic The purpose of this book is to provide a comprehensive survey of principles and state of the art techniques for secure group communications over data net works The book is targeted towards practitioners researchers and students in the fields of networking security and software applications development The book consists of 7 chapters which are listed and described as follows

Sensor Network Operations Shashi Phoha, Thomas F. La Porta, Christopher Griffin, 2007-01-29 This excellent title introduces the concept of mission oriented sensor networks as distributed dynamic systems of interacting sensing devices that are networked to jointly execute complex real time missions under uncertainty It provides the latest yet unpublished results on the main technical and application challenges of mission oriented sensor networks The authors of each chapter are research leaders from multiple disciplines who are presenting their latest innovations on the issues Together the editors have compiled a comprehensive treatment of the subject that flows smoothly from chapter to chapter This interdisciplinary approach significantly enhances the science and technology knowledge base and influences the military and civilian applications of this field

Author Information Dr Shashi Phoha is the Guest Editor of IEEE Transactions in Mobile Computing Special Issue on Mission Oriented Sensor Networks She is the Head of the Information Sciences and Technology Division of ARL and Professor of Electrical and Computer Engineering at Pennsylvania State University She has led major research programs of multimillion dollars for military sensor networks in industry as well as in academia In addition to more than a hundred journal articles she authored or co authored several books in related areas

Dr Thomas La Porta is the Editor of the IEEE Transactions on Mobile Computing He received his B S E E and M S E E degrees from The Cooper Union New York NY and his Ph D degree in Electrical Engineering from Columbia University New York NY He joined the Computer Science and Engineering Department at Penn State in 2002 as a Full Professor He is Director of the Networking Research Center at Penn State Prior to joining Penn State Dr LaPorta was with Bell Laboratories since 1986 He was the Director of the Mobile Networking Research Department Bell Laboratories Lucent Technologies where he led various projects in wireless and mobile networking He is an IEEE Fellow Bell Labs Fellow received the Bell Labs Distinguished Technical Staff Award and an Eta Kappa Nu Outstanding Young Electrical Engineer Award He has published over 50 technical papers and holds over 20 patents

Christopher Griffin holds a Masters degree in Mathematics from Penn State and is currently pursuing his Ph D there Mr Griffin has worked as a research engineer at the Penn State Applied Research Laboratory for the last six years on several DARPA and or Army Research Laboratory sponsored programs including the Emergent Surveillance Plexus ESP program as a lead engineer the DARPA sponsored Semantic Information Fusion program under the SensIT initiative where he co developed a distributed target tracking system and managed the development of a target classification algorithm using Level 1 sensor fusion techniques as a co principal software architect for the DARPA Joint Force Component Controller JFACC initiative an adaptive C2 program aimed at improving Air Force

response times and he was the principal software architect for the Boeing ARFL Insertion of Embedding Infosphere Technology IEIST program His areas of research expertise are distributed tracking systems mission oriented control and system modeling Applied Cryptography and Network Security Jonathan Katz,Moti Yung,2007-06-23 This book constitutes the refereed proceedings of the 5th International Conference on Applied Cryptography and Network Security ACNS 2007 held in Zhuhai China June 2007 The 31 revised full papers cover signature schemes computer and network security cryptanalysis group oriented security cryptographic protocols anonymous authentication identity based cryptography and security in wireless ad hoc and peer to peer networks **Spectrum Access and Management for Cognitive Radio Networks** Mohammad A Matin,2016-09-16 This book presents cutting edge research contributions that address various aspects of network design optimization implementation and application of cognitive radio technologies It demonstrates how to make better utilization of the available spectrum cognitive radios and spectrum access to achieve effective spectrum sharing between licensed and unlicensed users The book provides academics and researchers essential information on current developments and future trends in cognitive radios for possible integration with the upcoming 5G networks In addition it includes a brief introduction to cognitive radio networks for newcomers to the field Advances in Cryptology - EUROCRYPT 2010 Henri Gilbert,2010-05-20 This book constitutes the refereed proceedings of the 29th Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2010 held on the French Riviera in May June 2010 The 33 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from 188 submissions The papers address all current foundational theoretical and research aspects of cryptology cryptography and cryptanalysis as well as advanced applications The papers are organized in topical sections on cryptosystems obfuscation and side channel security 2 party protocols cryptanalysis automated tools and formal methods models and proofs multiparty protocols hash and MAC and foundational primitives Advances in Computer, Communication, Control and Automation Yanwen Wu,2011-11-20 The volume includes a set of selected papers extended and revised from the 2011 International Conference on Computer Communication Control and Automation 3CA 2011 2011 International Conference on Computer Communication Control and Automation 3CA 2011 has been held in Zhuhai China November 19 20 2011 This volume topics covered include signal and Image processing speech and audio Processing video processing and analysis artificial intelligence computing and intelligent systems machine learning sensor and neural networks knowledge discovery and data mining fuzzy mathematics and Applications knowledge based systems hybrid systems modeling and design risk analysis and management system modeling and simulation We hope that researchers graduate students and other interested readers benefit scientifically from the proceedings and also find it stimulating in the process *Issues in Networks Research and Application: 2012 Edition* ,2013-01-10 Issues in Networks Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about

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book constitutes the refereed proceedings of the 11th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2009 held in Lyon France in November 2009 The 49 revised full papers and 14 brief announcements presented together with three invited talks were carefully reviewed and selected from 126 submissions The papers address all safety and security related aspects of self stabilizing systems in various areas The most topics related to self systems The special topics were alternative systems and models autonomic computational science cloud computing embedded systems fault tolerance in distributed systems dependability formal methods in distributed systems grid computing mobility and dynamic networks multicore computing peer to peer systems self organizing systems sensor networks stabilization and system safety and security

Embedded Systems Handbook Richard Zurawski, 2017-12-19 Considered a standard industry resource the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications including those in automotive electronics industrial automated systems and building automation and control Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again Divided into two volumes to accommodate this growth the Embedded Systems Handbook Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews that explore cutting edge developments and deployments and identify potential trends This second self contained volume of the handbook Network Embedded Systems focuses on select application areas It covers automotive field industrial automation building automation and wireless sensor networks This volume highlights implementations in fast evolving areas which have not received proper coverage in other publications Reflecting the unique functional requirements of different application areas the contributors discuss inter node communication aspects in the context of specific applications of networked embedded systems Those looking for guidance on preliminary design of embedded systems should consult the first volume Embedded Systems Design and Verification

Proceedings, 1993

Emerging Directions in Embedded and Ubiquitous Computing Xiaobo Zhou, 2006-07-24 Here are the refereed proceedings of the EUC 2006 workshops held in conjunction with the IFIP International Conference on Embedded and Ubiquitous Computing in Seoul Korea August 2006 The book presents 102 revised papers spanning six workshops network centric ubiquitous systems NCUS 2006 security in ubiquitous computing systems SecUbiq 2006 RFID and ubiquitous sensor networks USN 2006 trustworthiness reliability and services in ubiquitous and sensor networks TRUST 2006 embedded software optimization ESO 2006 and multimedia solution and assurance in ubiquitous information systems MSA 2006

Secure Wireless Sensor Networks Mauro Conti, 2015-11-06 This book explores five fundamental mechanisms to build secure Wireless Sensor Networks WSNs It presents security issues related to a single node which deals with the authentication and communication confidentiality with other nodes It also

focuses on network security providing solutions for the node capture attack and the clone attack It examines a number of areas and problems to which WSNs are applied continuously including supporting rescue operations building surveillance fire prevention battlefield monitoring and more However known and unknown threats still affect WSNs and in many applications of this new technology the security of the network is a fundamental issue for confidentiality integrity authenticity and availability The last section of the book addresses security for a common WSN service Case studies are provided throughout Secure Wireless Sensor Networks Threats and Solutions targets advanced level students and researchers in computer science and electrical engineering as a secondary text book Professionals working in the wireless sensor networks field will also find this book useful as a reference

Attribute-Based Encryption and Access Control Dijiang Huang, Qiuxiang Dong, Yan Zhu, 2020-02-25 This book covers a broader scope of Attribute Based Encryption ABE from the background knowledge to specific constructions theoretic proofs and applications The goal is to provide in depth knowledge usable for college students and researchers who want to have a comprehensive understanding of ABE schemes and novel ABE enabled research and applications The specific focus is to present the development of using new ABE features such as group based access ID based revocation and attributes management functions such as delegation federation and interoperability These new capabilities can build a new ABE based Attribute Based Access Control ABAC solution that can incorporate data access policies and control into ciphertext This book is also ideal for IT companies to provide them with the most recent technologies and research on how to implement data access control models for mobile and data centric applications where data access control does not need to rely on a fixed access control infrastructure It is also of interest to those working in security to enable them to have the most recent developments in data access control such as ICN and Blockchain technologies Features Covers cryptographic background knowledge for ABE and ABAC Features various ABE constructions to achieve integrated access control capabilities Offers a comprehensive coverage of ABE based ABAC Provides ABE applications with real world examples Advances the ABE research to support new mobile and data centric applications

Handbook of Real-Time Computing Yu-Chu Tian, David Charles Levy, 2022-08-08 The aim of this handbook is to summarize the recent rapidly developed real time computing technologies from theories to applications This handbook benefits the readers as a full and quick technical reference with a high level historic review of technology detailed technical descriptions and the latest practical applications In general the handbook is divided into three main parts subjected to be modified theory design and application covering different but not limited to the following topics Real time operating systems Real time scheduling Timing analysis Programming languages and run time systems Middleware systems Design and analysis tools Real time aspects of wireless sensor networks Energy aware real time methods

Security in Wireless Ad Hoc and Sensor Networks Erdal Cayirci, Chunming Rong, 2008-12-30 This book provides an in depth guide to security in wireless ad hoc and sensor networks Security in Wireless Ad Hoc and Sensor Networks introduces the reader to the fundamentals and

key issues related to wireless ad hoc networking with an emphasis on security. It discusses the security attacks and counter measures in wireless ad hoc sensor and mesh networks and briefly presents the standards on related topics. The authors offer a clear exposition of various challenges and solutions in this field including bootstrapping, key distribution and exchange, authentication issues, privacy, anonymity and tamper resilience.

Key Features

- Introduces the fundamentals and key issues of the new technologies followed by comprehensive presentation on security attacks and counter measures.
- Covers Denial of Service (DoS) attacks, hardware aspects of secure wireless ad hoc and sensor networks and secure routing.
- Contains information on cryptographic primitives and electronic warfare.
- Includes problems at the end of each chapter to enhance learning.

This book is well suited for graduate students in computer, electrical and communications engineering and computer science departments, researchers in academia and industry as well as C4I engineers and officers in the military. Wireless network designers, internet service providers and mobile communications operators will also find this book very useful.

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Table of Contents Secure Broadcast Communication

1. Understanding the eBook Secure Broadcast Communication
 - The Rise of Digital Reading Secure Broadcast Communication
 - Advantages of eBooks Over Traditional Books
2. Identifying Secure Broadcast Communication
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Secure Broadcast Communication
 - User-Friendly Interface
4. Exploring eBook Recommendations from Secure Broadcast Communication
 - Personalized Recommendations
 - Secure Broadcast Communication User Reviews and Ratings
 - Secure Broadcast Communication and Bestseller Lists
5. Accessing Secure Broadcast Communication Free and Paid eBooks
 - Secure Broadcast Communication Public Domain eBooks
 - Secure Broadcast Communication eBook Subscription Services
 - Secure Broadcast Communication Budget-Friendly Options

6. Navigating Secure Broadcast Communication eBook Formats
 - ePub, PDF, MOBI, and More
 - Secure Broadcast Communication Compatibility with Devices
 - Secure Broadcast Communication Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Secure Broadcast Communication
 - Highlighting and Note-Taking Secure Broadcast Communication
 - Interactive Elements Secure Broadcast Communication
8. Staying Engaged with Secure Broadcast Communication
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Secure Broadcast Communication
9. Balancing eBooks and Physical Books Secure Broadcast Communication
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Secure Broadcast Communication
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Secure Broadcast Communication
 - Setting Reading Goals Secure Broadcast Communication
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Secure Broadcast Communication
 - Fact-Checking eBook Content of Secure Broadcast Communication
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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