Secure Broadcast Communication: In Wired and Wireless Networks

Book By : Adrian Perrig, J.D. Tygar

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Secure Broadcast Communication

Yehuda Lindell

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 of 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

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 **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 **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 pri vacy 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 *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 Global Networks The editors have built Issues in Networks Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Global Networks in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Networks Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com

Information and Communications Security Robert H. Deng,Feng Bao,Jianying Zhou,2003-08-02 This volume contains the proceedings of the 4th International Conference on formation and Communications Security ICICS2002 The three previous c ferencesweregeldinBeijing ICICS97 Sydney ICICS99 andXian ICICS01 where we had an enthusiastic and well attended event ICICS2002 is sponsored and organized by the Laboratories for Information Technology Singapore in co operation with the Engineering Research Center for Information Security Technology of the Chinese Academy of Sciences and the International C munications and Information Security Association ICISA During the past ve years the conference has placed equal emphasis on the theoretical and practical aspects of information and communications security and has established itself as a forum at which academic and industrial people meet and discuss emerging security challenges and solutions We hope to uphold this tradition by o ering you yet another successful meeting with a rich and interesting program The response to the Call For Papers was overwhelming 161 paper submissions were received Therefore the paper selection process was very competitive and di cult only41paperswereacceptedandmanygoodpapershadtoberejected The success of the conference depends on the quality of the program We are indebted to our program committee members and the external referees for the wonderful job they did   *Composition of Secure Multi-Party Protocols* Yehuda Lindell,2003-10-02 In the setting of multi party computation sets of two or more parties with private inputs wish to jointly compute some predetermined function of their inputs General results concerning secure two party or multi party computation were first announced in the 1980s Put briefly these results assert that under certain assumptions one can construct protocols for securely computing any desired multi party functionality However this research relates only to a setting where a single protocol execution is carried out In contrast in modern networks many different protocol executions are run at the same time This book is devoted to the general and systematic study of secure multi party computation under composition Despite its emphasis on a theoretically well

founded treatment of the subject general techniques for designing secure protocols are developed that may even result in schemes or modules to be incorporated in practical systems The book clarifies fundamental issues regarding security in a multi execution environment and gives a comprehensive and unique treatment of the composition of secure multi party protocols   Principles of Ad-hoc Networking Michel Barbeau,Evangelos Kranakis,2007-04-30 Principles of Ad Hoc Networking presents a systematic introduction to the fundamentals of ad hoc networks An ad hoc network is a small network especially one with wireless or temporary plug in connections Typically some of the network devices are part of the network only for the duration of a communications session or in the case of mobile or portable devices while in some close proximity to the rest of the network These networks can range from small and static systems with constrained power resources to larger scale dynamic and mobile environments Wireless ad hoc networks facilitate numerous and diverse applications for establishing survivable dynamic systems in emergency and rescue operations disaster relief and intelligent home settings Principles of Ad Hoc Networking Introduces the essential characteristics of ad hoc networks such as physical layer medium access control Bluetooth discovery and network formation wireless network programming and protocols Explains the crucial components involved in ad hoc networks in detail with numerous exercises to aid understanding Offers key results and merges practical methodologies with mathematical considerations Principles of Ad Hoc Networking will prove essential reading for graduate students in Computer Science Electrical Engineering Applied Mathematics and Physics as well as researchers in the field of ad hoc networking professionals in wireless telecoms and networking system developers Check out www scs carleton ca barbeau pahn index htm for further reading sample chapters a bibliography and lecture slides

Stabilization, Safety, and Security of Distributed Systems Rachid Guerraoui,Franck Petit,2009-10-26 This 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** IEEE Computer Society,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 s also of interested 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

Secure Communication for 5G and IoT Networks S Velliangiri,M Gunasekaran,P Karthikeyan,2021-10-28 This book highlights research on secure communication of 5G and the Internet of Things IoT Networks along with related areas to ensure secure and Internet compatible IoT systems The authors not only discuss 5G and IoT security and privacy challenges but also energy efficient approaches to improving the ecosystems through communication The book addresses the secure communication and privacy of the 5G and IoT technologies while also revealing the impact of IoT technologies on several scenarios in smart city design Intended as a comprehensive introduction the book offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in 5G and IoT technologies

Security in Wireless Mesh Networks Yan Zhang,Jun Zheng,Honglin Hu,2008-08-21 Wireless mesh networks WMN encompass a new area of technology set to play an important role in the next generation wireless mobile networks WMN is characterized by dynamic self organization self configuration and self healing to enable flexible integration quick deployment easy maintenance low costs high scalability and reliable services

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