

Secure Broadcast Communication: In Wired and Wireless Networks

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Secure Broadcast Communication

Yang Xiao



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

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

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

Computer Security - ESORICS 2006 Dieter Gollmann, Jan Meier, 2006-09-18 This book constitutes the refereed proceedings of the 11th European Symposium on Research in Computer Security ESORICS 2006 The 32 revised full papers presented were carefully reviewed and selected from 160 submissions ESORICS is confirmed as the European research event in computer security it presents original research contributions case studies and implementation experiences addressing any aspect of computer security in theory mechanisms applications or practical experience

Security in Sensor Networks Yang Xiao, 2016-04-19 Sensor networks differ from traditional networks in many aspects including their limited energy memory space and computational capability These differentiators create unique security vulnerabilities Security in Sensor Networks covers all aspects of the subject serving as an invaluable reference for researchers educators and practitioners

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 applications 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 telemedicine 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 networks 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

Cryptology and Network Security Juan A. Garay, Atsuko Miyaji, Akira Otsuka, 2009-11-24 The 8th International Conference on Cryptology and Network Security CANS 2009 was held at the Ishikawa Prefectural Museum of Art in

Kanazawa Japan during December 12-14, 2009. The conference was jointly co-organized by the National Institute of Advanced Industrial Science and Technology (AIST) Japan and the Japan Advanced Institute of Science and Technology (JAIST). In addition, the event was supported by the Special Interest Group on Computer Security (CSEC) of the IPSJ, Japan, the Japan Technical Group on Information Security (ISEC) of the IEICE, the Japan Technical Committee on Information and Communication System Security (ICSS) of the IEICE, and the Society of Information Theory and its Applications (SITA) Japan, and co-sponsored by the National Institute of Information and Communications Technology (NICT) Japan, ComWorth Co., Ltd. Japan, Hitachi Ltd. Hokuriku Telecommunication Network Co., Inc., and Internet Initiative Japan, Inc. The conference received 109 submissions from 24 countries, out of which 32 were accepted for publication in these proceedings. At least three Program Committee (PC) members reviewed each submitted paper, while submissions co-authored by a PC member were submitted to the more stringent evaluation of several PC members. In addition to the PC members, many external reviewers joined the review process in their particular areas of expertise. We were fortunate to have this energetic team of experts and are deeply grateful to all of them for their hard work, which included a very active discussion phase almost as long as the initial individual reviewing period. The paper submission, review, and discussion processes were effectively and efficiently made possible by the Web-based system iChair.

Information Security Applications Taekyoung Kwon, 2006-02-10. This book constitutes the refereed proceedings of the 6th International Workshop on Information Security Applications (WISA 2005) held in Jeju Island, Korea, in August 2005. The 29 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 168 submissions. The papers are organized in topical sections on security analysis and attacks, systems security, network security, DRM, software security, efficient HW implementation, side-channel attacks, privacy, anonymity, and efficient implementation.

Personal Networks Martin Jacobsson, Ignas Niemegeers, Sonia Heemstra de Groot, 2011-06-09. Written by experts in the field, this book describes the Personal Network architecture and its various components. This book focuses on networking and security aspects of Personal Networks (PNs). Given a single user, the authors propose an architecture for PNs in which devices are divided into one of two types of nodes: personal nodes and foreign nodes. Furthermore, the authors demonstrate the ways in which PNs can be formed in a self-organized and secure way, how they can be interconnected using infrastructure networks, how multiple PNs can be connected, and how their services and resources can be shared. In addition, the book shows how security and ease of use can be achieved through automatic configuration and how mobility can be supported through adaptability and self-organization. The motivations for the PN concept, the PN architecture, its functionalities and features, as well as future challenges, are covered in depth. Finally, the authors consider the potential applications for PNs and briefly discuss additional support systems for PN applications. The latter includes service discovery and context information management, among others.

Key Features Describes the PN network architecture and its various components in depth. Written by experts who developed this concept. Discusses the newer topic of federations of PNs.

Considers potential PN applications and demonstrates how applications support systems such as service discovery and context management can assist the applications Provides an insight into the challenges of future personal networking architectures for PNs potential and important solutions and their implications This book will serve as an invaluable reference for researchers developers and standardization experts in mobile and wireless communication systems and services It will also be of interest to postgraduate students in the field of telecommunications

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