

Security Issues and Threats in Ubiquitous Computing



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Madelyn Trent

Security For Ubiquitous Computing

**Parikshit N. Mahalle, Gitanjali Rahul
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Security For Ubiquitous Computing:

Security for Ubiquitous Computing Frank Stajano, 2002-03-22 Ubiquitous computing refers to computers embedded in everyday devices communicating with each other over ad hoc wireless networks Focuses on two very hot topics ad hoc wireless networking and security Covers security issues for well established and widely used technologies such as GSM Bluetooth and IP Presents a framework to make sense of the many and varied issues at stake a taxonomy of the major problems and in depth discussion of some specific cutting edge solutions Includes a primer on security and the basics of cryptography Describes the security issues in peer to peer networking a new technology that is gaining prominence in the media with applications such as Napster and ICQ Chat

Security of Ubiquitous Computing Systems Gildas Avoine, Julio Hernandez-Castro, 2021-01-14 The chapters in this open access book arise out of the EU Cost Action project Cryptacus the objective of which was to improve and adapt existent cryptanalysis methodologies and tools to the ubiquitous computing framework The cryptanalysis implemented lies along four axes cryptographic models cryptanalysis of building blocks hardware and software security engineering and security assessment of real world systems The authors are top class researchers in security and cryptography and the contributions are of value to researchers and practitioners in these domains This book is open access under a CC BY license

Privacy, Security and Trust within the Context of Pervasive Computing Philip Robinson, Harald Vogt, Waleed Wagealla, 2006-06-07 Privacy Security and Trust within the Context of Pervasive Computing is an edited volume based on a post workshop at the second international conference on Pervasive Computing The workshop was held April 18 23 2004 in Vienna Austria The goal of the workshop was not to focus on specific even novel mechanisms but rather on the interfaces between mechanisms in different technical and social problem spaces An investigation of the interfaces between the notions of context privacy security and trust will result in a deeper understanding of the atomic problems leading to a more complete understanding of the social and technical issues in pervasive computing

Security Issues and Privacy Threats in Smart Ubiquitous Computing Parikshit N. Mahalle, Gitanjali R. Shinde, Nilanjan Dey, Aboul Ella Hassanien, 2021-04-08 This book extends the work from introduction of ubiquitous computing to the Internet of things to security and to privacy aspects of ubiquitous computing The uniqueness of this book is the combination of important fields like the Internet of things and ubiquitous computing It assumes that the readers goal is to achieve a complete understanding of IoT smart computing security issues challenges and possible solutions It is not oriented towards any specific use cases and security issues privacy threats in ubiquitous computing problems are discussed across various domains This book is motivating to address privacy threats in new inventions for a wide range of stakeholders like layman to educated users villages to metros and national to global levels This book contains numerous examples case studies technical descriptions scenarios procedures algorithms and protocols The main endeavour of this book is threat analysis and activity modelling of attacks in order to give an actual view of the ubiquitous computing applications The unique approach

will help readers for a better understanding **Security Issues and Privacy Threats in Ubiquitous Computing** Parikshit N. Mahalle,Gitanjali Rahul Shinde,2020 This book examines security issues and privacy threats in ubiquitous computing machine learning and the internet of things **Security in Pervasive Computing** Dieter Hutter,2004-01-26 This book constitutes the thoroughly refereed post proceedings of the First International Conference on Security in Pervasive Computing held in Boppard Germany in March 2003 The 19 revised full papers presented together with abstracts of 4 invited talks and a workshop summary were carefully selected during two rounds of reviewing and improvements The papers are organized in topical sections on location privacy security requirements security policies and protection authentication and trust secure infrastructures smart labels verifications and hardware architectures Security for Ubiquitous Computing Frank Stajano,2002-03-22 This title provides a technical overview of the state of the art in security research as applied to ubiquitous computing systems *The First International Workshop on Security in Ubiquitous Computing Systems* ,2005

Privacy in Mobile and Pervasive Computing Marc Langheinrich,Florian Schaub,2022-05-31 It is easy to imagine that a future populated with an ever increasing number of mobile and pervasive devices that record our minute goings and doings will significantly expand the amount of information that will be collected stored processed and shared about us by both corporations and governments The vast majority of this data is likely to benefit us greatly making our lives more convenient efficient and safer through custom tailored and context aware services that anticipate what we need where we need it and when we need it But beneath all this convenience efficiency and safety lurks the risk of losing control and awareness of what is known about us in the many different contexts of our lives Eventually we may find ourselves in a situation where something we said or did will be misinterpreted and held against us even if the activities were perfectly innocuous at the time Even more concerning privacy implications rarely manifest as an explicit tangible harm Instead most privacy harms manifest as an absence of opportunity which may go unnoticed even though it may substantially impact our lives In this Synthesis Lecture we dissect and discuss the privacy implications of mobile and pervasive computing technology For this purpose we not only look at how mobile and pervasive computing technology affects our expectations of and ability to enjoy privacy but also look at what constitutes privacy in the first place and why we should care about maintaining it We describe key characteristics of mobile and pervasive computing technology and how those characteristics lead to privacy implications We discuss seven approaches that can help support end user privacy in the design of mobile and pervasive computing technologies and set forward six challenges that will need to be addressed by future research The prime target audience of this lecture are researchers and practitioners working in mobile and pervasive computing who want to better understand and account for the nuanced privacy implications of the technologies they are creating Those new to either mobile and pervasive computing or privacy may also benefit from reading this book to gain an overview and deeper understanding of this highly interdisciplinary and dynamic field *Ubiquitous Computing and Computing Security of IoT* N. Jeyanthi,Ajith Abraham,Hamid

Mcheick,2018-10-03 This provides a comprehensive overview of the key principles of security concerns surrounding the upcoming Internet of Things IoT and introduces readers to the protocols adopted in the IoT It also analyses the vulnerabilities attacks and defense mechanisms highlighting the security issues in the context of big data Lastly trust management approaches and ubiquitous learning applications are examined in detail As such the book sets the stage for developing and securing IoT applications both today and in the future Security Issues and Privacy Threats in Ubiquitous Computing Parikshit N. Mahalle,Gitanjali Rahul Shinde,2020 This book examines security issues and privacy threats in ubiquitous computing machine learning and the internet of things Security in Pervasive Computing John A. Clark,Richard F. Paige,Fiona A.C. Polack,Phillip J. Brooke,2006-03-10 This book constitutes the refereed proceedings of the Third International Conference on Security in Pervasive Computing SPC 2006 held in York UK in April 2006 The 16 revised papers presented together with the extended abstract of 1 invited talk were carefully reviewed and selected from 56 submissions The papers are organized in topical sections on protocols mechanisms integrity privacy and security information flow and access control and authentication *Security and Privacy in the Age of Ubiquitous Computing* Ryoichi Sasaki,Eiji Okamoto,Hiroshi Yoshiura,2010-06-03 Even in the age of ubiquitous computing the importance of the Internet will not change and we still need to solve conventional security issues In addition we need to deal with new issues such as security in the P2P environment privacy issues in the use of smart cards and RFID systems Security and Privacy in the Age of Ubiquitous Computing addresses these issues and more by exploring a wide scope of topics The volume presents a selection of papers from the proceedings of the 20th IFIP International Information Security Conference held from May 30 to June 1 2005 in Chiba Japan Topics covered include cryptography applications authentication privacy and anonymity DRM and content security computer forensics Internet and web security security in sensor networks intrusion detection commercial and industrial security authorization and access control information warfare and critical protection infrastructure These papers represent the most current research in information security including research funded in part by DARPA and the National Science Foundation *Security Issues and Threats in Ubiquitous Computing* Madelyn Trent,2023-09-19 The concept of ubiquitous computing is used in computer science software engineering and hardware engineering for computing which can take place in any format any device and at any location unlike desktop computing The traditional view of computing systems has been irreversibly changed by the recent technical developments in hardware and software They not only contain linked servers but also include a wide variety of embedded and pervasive devices which lead to the development of ubiquitous computing systems Cryptanalysis methodologies and tools are used to enhance the security of the ubiquitous computing environment by providing protection and controlling access to data Cryptanalysis is the process of examining information systems for understanding hidden aspects of the systems It involves the study of theoretical and practical cryptographic mechanisms intended to provide privacy and security This book unravels the recent studies on ubiquitous computing It will

elucidate the concepts and innovative models around security issues and threats in ubiquitous computing systems The book will help the readers in keeping pace with the rapid changes in this field **Information Security Theory and Practices. Smart Cards, Mobile and Ubiquitous Computing Systems** Damien Sauveron, 2007-04-25 This volume constitutes the refereed proceedings of the First IFIP TC6 WG 8.8 WG 11.2 International Workshop on Information Security Theory and Practices Smart Cards Mobile and Ubiquitous Computing Systems WISTP 2007 held in Heraklion Crete Greece in May 2007 The 20 revised full papers are organized in topical sections on mobility hardware and cryptography privacy cryptography schemes smart cards and small devices **Handbook of Research on Ubiquitous Computing Technology for Real Time Enterprises** Mühlhäuser, Max, Gurevych, Iryna, 2008-01-31 This book combines the fundamental methods algorithms and concepts of pervasive computing with current innovations and solutions to emerging challenges It systemically covers such topics as network and application scalability wireless network connectivity adaptability and context aware computing information technology security and liability and human computer interaction Provided by publisher **Information Security** Detmar W. Straub, Seymour E. Goodman, Richard Baskerville, 2008 This volume in the Advances in Management Information Systems series covers the managerial landscape of information security **Emerging Directions in Embedded and Ubiquitous Computing** Mieso Denko, Chi-Sheng Shih, Kuan-Ching Li, Shiao-Li Tsao, Qing-An Zeng, Soo-Hyun Park, Young-Bae Ko, Shih-Hao Hung, Jong Hyuk Park, 2007-11-27 This book constitutes the refereed proceedings of the EUC 2007 workshops held in conjunction with the IFIP International Conference on Embedded and Ubiquitous Computing EUC 2007 in Taipei Taiwan in December 2007 The 69 revised full papers presented together with four invited papers were carefully reviewed and selected from about 200 submissions to the seven workshops A broad range of topics are covered **Emerging Directions in Embedded and Ubiquitous Computing** Xiaobo Zhou, Oleg Sokolsky, Lu Yan, Eun-Sun Jung, Zili Shao, Yi Mu, Dong-Chun Lee, Daeyoung Kim, Young-Sik Jeong, Cheng-Zhong Xu, 2006-08-29 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 **System Support for Security and Privacy in Pervasive Computing** Wolfgang Apolinarski, 2016-06-06 One of the main goals of the pervasive computing domain is to provide the user with task support for everyday tasks This task support should be realized by pervasive applications that are seamlessly integrated in the environment for example embedded into devices such as everyday objects To automate configuration context information is shared between these devices The shared context can contain private information that should not be made public System support which helps to develop pervasive applications

should therefore contain mechanisms that utilize security and privacy methods when handling context. Pervasive applications can then use these mechanisms and create pervasive environments while preserving the user's privacy. Here we show how context information can be processed and queried in a privacy preserving manner. By securing the authenticity and integrity of context information and creating a secure context distribution algorithm, we show how pervasive applications can use and share context securely. Second, we introduce secure role assignment as a mechanism for environment adaptation which is built on context information. Similar to context, roles need to be protected and secured during distribution. Additionally, we add system support for secure roles which can be used for role based access control by pervasive applications. Third, we create a secure key exchange mechanism that can be used to secure the communication between users and devices. This is an essential step that needs to be performed before any private information can be shared among them. Fourth, we introduce a framework for the automatic generation of a privacy policy. This framework creates an individual privacy policy that can be used to share context between users, devices, or applications while preserving the user's will with regard to context privacy.

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