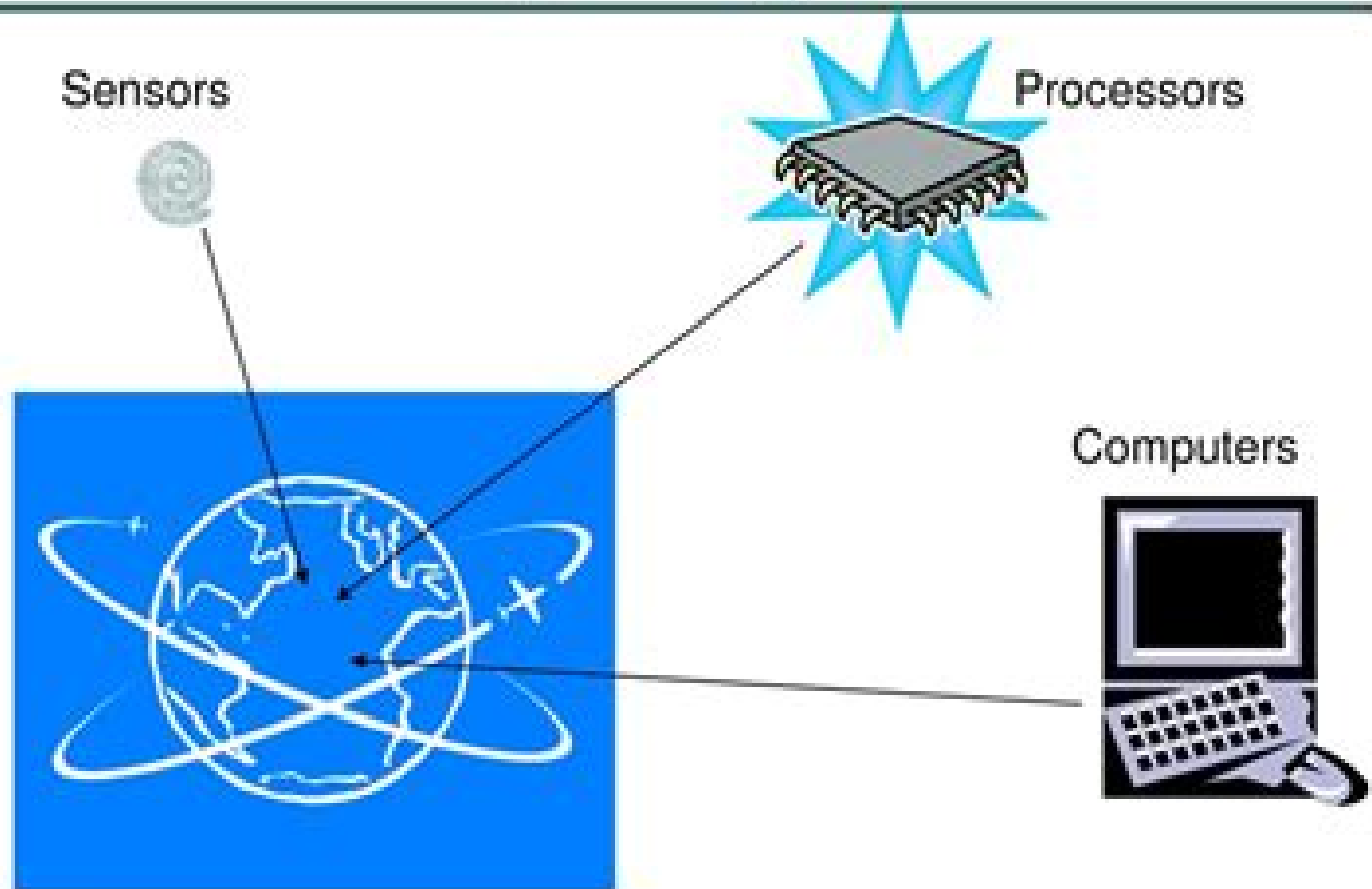


Pervasive Computing



Security In Pervasive Computing

Frank Stajano



Security In Pervasive Computing:

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 in Pervasive Computing* John A. Clark, Richard F. Paige, Fiona A.C. Polack, Phillip J. Brooke, 2006-04-10 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 in Pervasive Computing** Dieter Hutter, Gunter Muller, Werner Stephan, 2014-01-15 *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 in Pervasive Computing** Dieter Hutter, Günter Müller, Werner Stephan, Markus Ullmann, 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 in Pervasive Computing** Dieter Hutter, Markus Ullmann, 2005-03-30 This book constitutes the refereed proceedings of the Second International Conference on Security in Pervasive Computing SPC 2005 held in Boppard Germany in April 2005 The 14 revised full papers and 3 revised short papers presented together with abstracts of 5 invited talks were carefully reviewed and selected from 48 submissions The papers are organized in topical sections on smart devices and applications authentication privacy and anonymity and access control and information flow **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.

Protocols and Technologies for Security in Pervasive Computing and Communications Ford Long Wong, 2008 **Privacy in Mobile and Pervasive Computing** Marc Langheinrich, Florian Schaub, 2018-12-03

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

Security in Pervasive Computing, 2006 Trust-based Security in Pervasive Computing Environments L.; Finin Kagal (T.; Joshi, A.), **Security in Distributed, Grid, Mobile, and Pervasive Computing** Yang Xiao, 2007-04-17 This book addresses the increasing demand to guarantee privacy integrity and availability of resources in networks and distributed systems It first reviews security issues and challenges in content distribution networks describes key agreement protocols based on the Diffie Hellman key exchange and key management protocols for complex distributed systems like the Internet and discusses securing design patterns for distributed systems The next section focuses on security in mobile computing and wireless networks After a section on grid computing security the book presents an overview of security solutions for pervasive healthcare systems and surveys wireless sensor network security

Security in Pervasive Computing Dieter Hutter, Markus Ullmann, 2009-09-02 **Security in Pervasive Computing** John A. Clark, Richard F. Paige, Fiona A.C. Polack, Phillip J. Brooke, 2009-09-02 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

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CASPER Boris Dragovic, 2006 **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 [A Security Architecture Based on Trust Management for Pervasive Computing Systems](#) ,2005 Traditionally stand alone computers and small networks rely on user authentication and access control to provide security These physical methods use system based controls to verify the identity of a person or process explicitly enabling or restricting the ability to use change or view a computer resource However these strategies are inadequate for the increased flexibility that distributed networks such as the Internet and ubiquitous pervasive computing environments require as these systems lack central control and in addition their users are not all predetermined Users in pervasive environments expect to access locally hosted resources and services anytime and anywhere leading to serious security risks and access control problems We propose a solution based on distributed trust management which involves developing a security policy assigning credentials to entities verifying that the credentials conform to the policy delegating trust to third parties revoking rights and reasoning about users access rights This paper presents an infrastructure that complements existing security features like Public Key Infrastructure PKI and Role Based Access Control with distributed trust management to provide a highly flexible mode of enforcing security in pervasive computing environments

Information Security and Ethics: Concepts, Methodologies, Tools, and Applications Nemati, Hamid, 2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject

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Security In Pervasive Computing Introduction

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