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Markus Jakobsson

Mobile Authentication Problems and Solutions



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Abdullah Mohammed Almuhaideb



Mobile Authentication Problems And Solutions Springerbriefs In Computer Science:

Mobile Authentication Markus Jakobsson,2012-08-21 Mobile Authentication Problems and Solutions looks at human to machine authentication with a keen focus on the mobile scenario Human to machine authentication is a startlingly complex issue In the old days of computer security before 2000 the human component was all but disregarded It was either assumed that people should and would be able to follow instructions or that end users were hopeless and would always make mistakes The truth of course is somewhere in between which is exactly what makes this topic so enticing We cannot make progress with human to machine authentication without understanding both humans and machines Mobile security is not simply security ported to a handset Handsets have different constraints than traditional computers and are used in a different way Text entry is more frustrating and therefore it is tempting to use shorter and less complex passwords It is also harder to detect spoofing We need to design with this in mind We also need to determine how exactly to integrate biometric readers to reap the maximum benefits from them This book addresses all of these issues and more *Security and Privacy of Cyber-Physical Systems* Agbotiname Lucky Imoize,Webert Montlouis,Segun I. Popoola,Mohammad Hammoudeh,2025-10-14 This book examines vulnerability threats and attack detection and mitigation including the associated legal requirements regulatory frameworks and policies for enabling the security and privacy of cyber physical systems It provides researchers academics and practitioners with new insights into the real world scenarios of deploying applying and managing security and privacy frameworks in modern cyber physical systems It addresses critical security and privacy concerns including theoretical analysis novel system architecture design and implementation vulnerability discovery analysis mitigation emerging application scenarios experimental frameworks and social and ethical dilemmas affecting all parties in cyber physical systems The book is an ideal reference for practitioners and researchers in cyber physical systems security and privacy the Internet of Things advanced cryptography cyber defensive walls industrial systems and cyber threats It is also a suitable textbook for graduate and senior undergraduate courses in these subjects *Human Aspects of Information Security, Privacy, and Trust* Theo Tryfonas,Ioannis Askoxylakis,2015-07-20 This book constitutes the proceedings of the Third International Conference on Human Aspects of Information Security Privacy and Trust HAS 2015 held as part of the 17th International Conference on Human Computer Interaction HCII 2015 held in Los Angeles CA USA in August 2015 and received a total of 4843 submissions of which 1462 papers and 246 posters were accepted for publication after a careful reviewing process These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The 62 papers presented in the HAS 2015 proceedings are organized in topical sections as follows authentication cybersecurity privacy security and user behavior security in social media and smart technologies and security technologies **Leakage Resilient**

Password Systems Yingjiu Li,Qiang Yan,Robert H. Deng,2015-04-23 This book investigates tradeoff between security and usability in designing leakage resilient password systems LRP and introduces two practical LRP systems named Cover Pad and ShadowKey It demonstrates that existing LRP systems are subject to both brute force attacks and statistical attacks and that these attacks cannot be effectively mitigated without sacrificing the usability of LRP systems Quantitative analysis proves that a secure LRP system in practical settings imposes a considerable amount of cognitive workload unless certain secure channels are involved The book introduces a secure and practical LRP system named Cover Pad for password entry on touch screen mobile devices Cover Pad leverages a temporary secure channel between a user and a touch screen which can be easily realized by placing a hand shielding gesture on the touch screen The temporary secure channel is used to deliver a hidden message to the user for transforming each password symbol before entering it on the touch screen A user study shows the impact of these testing conditions on the users performance in practice Finally this book introduces a new LRP system named ShadowKey Shadow Key is designed to achieve better usability for leakage resilient password entry It leverages either a permanent secure channel which naturally exists between a user and the display unit of certain mobile devices or a temporary secure channel which can be easily realized between a user and a touch screen with a hand shielding gesture The secure channel protects the mappings between original password symbols and associated random symbols Unlike previous LRP system users Shadow Key users do not need to remember anything except their passwords Leakage Resilient Password Systems is designed for professionals working in the security industry Advanced level students studying computer science and electrical engineering will find this brief full of useful material **Seamless and Secure**

Communications over Heterogeneous Wireless Networks Jiannong Cao,Chisheng Zhang,2014-01-30 This brief provides an overview of the requirements challenges design issues and major techniques for seamless and secure communications over heterogeneous wireless networks It summarizes and provides detailed insights into the latest research on handoff management mobility management fast authentication and security management to support seamless and secure roaming for mobile clients The reader will also learn about the challenges in developing relevant technologies and providing ubiquitous Internet access over heterogeneous wireless networks The authors have extensive experience in implementing such technologies over heterogeneous wireless networks thus enabling them to bridge the gap between the theoretical results of research and the real practice Combining basic theoretical concepts and practical implementation this brief is ideal for professionals and researchers in the field Advanced level students interested in computer communication networks and wireless technologies will also find the content helpful *Security and Trust Issues in Internet of Things* Sudhir Kumar Sharma,Bharat Bhushan,Bhuvan Unhelkar,2020-12-02 The purpose of this edited book is to present and showcase the basic fundamentals applications and integration of both IoT and Blockchain The trend of applying Blockchain to IoT is rapidly growing because it helps to overcome various challenges faced by IoT from smart manufacturing to unmanned aerial vehicles

This book aims to showcase the basics of both IoT and Blockchain as well as the integration and challenges for existing practitioners. This book initiates conversations among technologists, engineers, scientists, and clinicians to synergize their efforts in producing low cost, high performance, highly efficient, deployable IoT systems. This book is theory based and is useful for engineers from various disciplines including industrial engineering, computer science, electronics, telecommunications, electrical, agricultural, and cybersecurity along with researchers, professionals, and students.

Internet of Things Mohammad Ayoub Khan, 2022-06-07 The book deals with the conceptual and practical knowledge of the latest tools and methodologies of hardware development for Internet of Things (IoT) and variety of real world challenges. The topics cover the state of the art and future perspectives of IoT technologies where industry experts, researchers, and academics had shared ideas and experiences surrounding frontier technologies, breakthrough and innovative solutions, and applications. Several aspects of various hardware technologies, methodologies, and communication protocols such as formal design flow for IoT hardware design, approaches for IoT hardware, IoT solution reference architectures, and instances simulation, modelling, and programming framework, hardware basics of sensors for IoT, configurable processor, and technology for IoT and real life examples and studies are critically examined in this book. It also identifies key technological facets that support the relevance of hardware perspective of IoT and discusses the benefits and challenges to dominate the next decades. The book serves as an excellent reference for senior undergraduates and graduates in electrical and computer engineering, research scholars, mobile and wireless communications engineers, IT engineers, and electronics engineers who need to understand IoT at an in depth level to build and manage IoT solutions.

Opportunistic Networks Anshul Verma, Pradeepika Verma, Sanjay Kumar Dhurandher, Isaac Woungang, 2021-08-18 The opportunistic network is an emerging and recent area of research. To make this research area more adaptable for practical and industrial use, there is a need to further investigate several research challenges in all aspects of opportunistic networks. Therefore, *Opportunistic Networks: Fundamentals, Applications, and Emerging Trends* provides theoretical, algorithmic, simulation, and implementation based research developments related to fundamentals, applications, and emerging research trends in opportunistic networks. The book follows a theoretical approach to describe fundamentals to beginners and incorporates a practical approach depicting the implementation of real life applications to intermediate and advanced readers. This book is beneficial for academicians, researchers, developers, and engineers who work in or are interested in the fields related to opportunistic networks, delay tolerant networks, and intermittently connected ad hoc networks. This book also serves as a reference book for graduate and postgraduate courses in computer science, computer engineering, and information technology streams.

Continuous Biometric Authentication Systems Max Smith-Creasey, 2024-01-12 This book offers an overview of the field of continuous biometric authentication systems which capture and continuously authenticate biometrics from user devices. This book first covers the traditional methods of user authentication and discusses how such techniques have become cumbersome in the world of mobile devices.

and short usage sessions The concept of continuous biometric authentication systems is introduced and their construction is discussed The different biometrics that these systems may utilise e g touchscreen gesture interactions are described and relevant studies surveyed It also surveys important considerations and challenges This book brings together a wide variety of key motivations components and advantages of continuous biometric authentication systems The overview is kept high level so as not to limit the scope to any single device biometric trait use case or scenario Therefore the contents of this book are applicable to devices ranging from smartphones to desktop computers utilising biometrics ranging from face recognition to keystroke dynamics It also provides metrics from a variety of existing systems such that users can identify the advantages and disadvantages of different approaches This book targets researchers and lecturers working in authentication as well as advanced level students in computer science interested in this field The book will also be of interest to technical professionals working in cyber security

Cellular Authentication for Mobile and Internet Services Silke Holtmanns,Valtteri Niemi,Philip Ginzboorg,Pekka Laitinen,N. Asokan,2008-09-15 An invaluable reference discussing the Generic Authentication Architecture GAA its infrastructure usage and integration into existing networks Cellular Authentication for Mobile and Internet Services introduces the reader into the field of secure communication for mobile applications including secure web browsing with a phone or PC Single Sign On SSO mobile broadcast content protection secure location services etc The book discusses the Generic Authentication Architecture GAA of the mobile standardization body 3rd Generation Partnership Project 3GPP and its American counterpart 3GPP2 in full detail and with all variants It explains the usage of GAA by various standardization bodies and standardized applications and also looks at a number of non standardized ones such as secure remote login to enterprise environment and card personalization Cellular Authentication for Mobile and Internet Services Describes the usage of the generic authentication architecture GAA by various standardization bodies and standardized applications covering mobile broadcast multicast service security Single Sign On HTTPS i e secure web browsing secure data access secure location services etc Provides guidance on how to integrate the generic authentication into existing and future terminals networks and applications Explains the functionality of the application security in general as well as on application developer level Describes various business scenarios and related security solutions and covers secure application implementation and integration Brings together essential information currently scattered across different standardization bodies on standards in one comprehensive volume This excellent all in one reference will provide system and protocol designers application developers senior software project managers telecommunication managers and ISP managers with a sound introduction into the field of secure communication for mobile applications System integrators advanced students Ph D candidates and professors of computer science or telecommunications will also find this text very useful

Secure IP Mobility Management for VANET Sanaa Taha,Xuemin Shen,2013-08-28 This brief presents the challenges and solutions for VANETs security and privacy problems occurring in mobility management protocols including Mobile IPv6 MIPv6 Proxy

MIPv6 PMIPv6 and Network Mobility NEMO The authors give an overview of the concept of the vehicular IP address configurations as the prerequisite step to achieve mobility management for VANETs and review the current security and privacy schemes applied in the three mobility management protocols Throughout the brief the authors propose new schemes and protocols to increase the security of IP addresses within VANETs including an anonymous and location privacy preserving scheme for the MIPv6 protocol a mutual authentication scheme that thwarts authentication attacks and a fake point cluster based scheme to prevent attackers from localizing users inside NEMO based VANET hotspots The brief concludes with future research directions Professionals and researchers will find the analysis and new privacy schemes outlined in this brief a valuable addition to the literature on VANET management

An Investigation Into Authentication Security of GSM Algorithm for Mobile Banking Ali Raheem,2013 Due to the mobility of its users GSM systems are vulnerable to an unauthorized access and eaves droppings when compared with the traditional fixed wired networks The main idea of this project is to develop an application device in order to secure mobile banking over unsecure GSM network It is important to mention that mobile banking is a term that is used for performing balance checks account transactions payments credit applications and many other online applications Unfortunately the security architecture for cellular network is not entirely secure As a matter of fact GSM network infrastructure is proved to be insecure Many possible attacks are documented in literature For security was never considered in the initial stages the sending of protective banking information across an open mobile phone network remains insecure Consequently this project focuses entirely on the development and design of security techniques in order to asses some security issues within mobile banking through cellular phone network GSM The main aim of this project is to investigate and examine the following

- 1 Security issues in each level of the mobile network architecture
- 2 Messages and signals exchanged between user s cellular phone and mobile network at each level
- 3 The overall security architecture of GSM flaws
- 4 Some existing security measures for mobile transactions
- 5 The current security within SMS banking and GPRS banking

Finally two folded simulations in MATLAB were performed using OFDM which is a broadband multicarrier modulation method that provides a high performance operation to transmitted and received data or information

Security and Authentication Ong Tian Song,Tee Connie,Mohd Shohel Sayeed,2018 Issues around security and privacy have received greater attention as the world becomes more digitized and interconnected There are a myriad of technological advances like smart mobile devices wearable devices Internet of Things IoTs cloud computing and social networks that benefit people all over the world transforming how they work and communicate with each other However these new technologies also bring new security and privacy challenges For example there are massive attacks by malicious malware like WannaCry that cost great financial loss to individuals and institutions Besides there are ample amounts of software and programs that quietly collect share and sometimes disclose huge amounts of personal information This book presents the current popular issues in information security and privacy covering human users hardware and software the

Internet and also communication protocols The book provides a comprehensive combination of studies that offer integrated solutions to security and privacy problems The topics covered in the book include mobile authentication systems security in wireless sensor networks and IoTs network based intrusion detection systems privacy protection in machine learning deep learning for surveillance and also targeted image forensics An understanding of these areas ensures the ability to adapt to and address new challenges in the technological dependent world as these fields evolve The primary target audiences of this book are students and researchers from security technology and information technology management The editors have been blessed by the assistance of many people concerning all aspects for the preparation of this book The editors would like to express their sincere gratitude to the anonymous reviewers for their professional support and dedication to reviewing the chapters of this book They are deeply grateful for the excellent contributions of the authors Last but not least special thanks also go out to Nova Science Publishers for presenting the opportunity to prepare and publish this book

Advances in User Authentication Dipankar Dasgupta, Arunava Roy, Abhijit Nag, 2017-08-22 This book is dedicated to advances in the field of user authentication The book covers detailed description of the authentication process as well as types of authentication modalities along with their several features authentication factors It discusses the use of these modalities in a time varying operating environment including factors such as devices media and surrounding conditions like light noise etc The book is divided into several parts that cover descriptions of several biometric and non biometric authentication modalities single factor and multi factor authentication systems mainly adaptive negative authentication system etc Adaptive strategy ensures the incorporation of the existing environmental conditions on the selection of authentication factors and provides significant diversity in the selection process The contents of this book will prove useful to practitioners researchers and students The book is suited to be used a text in advanced graduate courses on User Authentication Modalities It can also be used as a textbook for professional development and certification coursework for practicing engineers and computer scientists

WiFi signal-based user authentication Jiadi Yu, Hao Kong, Linghe Kong, 2023-11-07 As a privacy preserving and illumination robust manner WiFi signal based user authentication has become a new direction for ubiquitous user authentication to protect user privacy and security It gradually turns into an important option for addressing the security concern of IoT environment However due to the limited sensing capability of WiFi signals and wide application scenarios WiFi signal based user authentication suffers from practical issues of diversified behaviors and complex scenarios Therefore it is necessary to address the issues and build integrated systems for user authentication using WiFi signals In this book the development and progress of WiFi signal based user authentication systems in extensive scenarios are presented which provides a new direction and solution for ubiquitous security and privacy protection This book gives strong motivation of leveraging WiFi signals to sense human activities for user authentication and presents the key issues of WiFi based user authentication in diversified behaviors and complex scenarios This book provides the approaches for digging WiFi signals to

sense human activities and extract features realizing user authentication under fine grained finger gestures undefined body gestures and multi user scenarios State of the art researches and future directions involved with WiFi signal based user authentication are presented and discussed as well This book will benefit researchers and practitioners in the related field

Secure and Trustworthy Transportation Cyber-Physical Systems Yunchuan Sun,Houbing Song,2017-10-16 This book comprehensively reviews the cyber security and privacy issues in transportation cyber physical systems TCPs It examines theories and various state of the art technologies and methodologies Starting with a survey of the latest solutions in TCPs it introduces a smart transport system architecture design based on cyber physical systems It then discusses in detail the principles and metrics of evaluating safety and privacy in TCPs and elaborates the verification and analysis of secure robust and trustworthy TCPs Moreover it demonstrates the advanced and novel tools commonly used in practice by several researchers Lastly it provides an exhaustive case study on the authentication and attestation in TCPs This book is of interest not only to readers in the field of TCPs but also to those in interdisciplinary fields such as energy healthcare bio engineering etc

Towards Seamless and Secure Mobile Authentication James Tyler Romo,2014 With the rise of mobile technology the personal lives and sensitive information of everyday citizens are carried about without a thought to the risks involved Despite this high possibility of harm many fail to use simple security to protect themselves because they feel the benefits of securing their devices do not outweigh the cost to usability The main issue is that beyond initial authentication sessions are maintained using optional timeout mechanisms where a session will end if a user is inactive for a period of time This interruption based form of continuous authentication requires constant user intervention leading to frustration which discourages its use No solution currently exists that provides an implementation beyond the insecure and low usability of simple timeout and re authentication This work identifies the flaws of current mobile authentication techniques and provides a new solution that is not limiting to the user has a system for secure active continuous authentication and increases the usability and security over current methods

Secure Mobile Authentication in Ubiquitous Networking Environments Abdullah Mohammed Almuhaideb,2013 Mobile users desire to have connectivity anywhere and at anytime even in heterogeneous networks where different wireless technologies provided by different network providers Several approaches have been proposed to allow ubiquitous networking However limitations still exist in those approaches especially authentication This research project first investigates the existing mobile authentication approaches for ubiquitous networking and then proposes a secure hybrid authentication solution with high flexibility and good performance to facilitate users mobility The proposed model combines the advantages of both centralised and distributed authentication models in terms of security and performance while still achieving flexibility The authentication process not only identifies the important and essential properties of mobile authentication but also clarifies the relationships between the problems in mobile authentication and system properties The proposed model can also serve as a guideline for system designers and

implementers to design mobile authentication systems The identified key solution requirements facilitate the analysis and evaluation of mobile authentication approaches In order to realise the model the project proposes a Passport and Visa authentication approach with protocols that possess the required properties namely flexibility security and efficiency In terms of the flexibility requirement the Passport Visa approach allows mobile users to access the best available wireless service with a single authentication credential to simplify the wireless network access process Also a mobile user can directly negotiate with potential foreign network providers for more coverage and services In terms of the security requirement the Passport Visa approach provides mutual authentication and resists common attacks This helps a foreign network ensure that the service will get paid for and also helps the mobile user ensure that the foreign network is a legitimate and trusted provider Moreover the proposed approach can ensure a joint key control between a foreign network and the mobile user in order to protect against the communication interception by the home network The Passport and Visa tokens provide practical key management user anonymity and un traceability In terms of the efficiency requirement the Passport Visa approach minimises computation communication and storage costs Since the proposed hybrid mobile authentication model combines the advantages of both distributed and centralised models it assists the distribution of the authentication load among engaging authentication servers In addition the proposed model provides a new efficient technique using recent evidence to tackle the problem of user revocation status check The analysis and evaluation show that the proposed model along with its realisation offers flexible efficient strong authentication for ubiquitous networking compared to existing approaches

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