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RANDY STEVENS

John Wiley & Sons

The system over secure networks, but they contain sensitive data related to both the card holder and the system, that has to be kept private and confidential. The aim of the research is to conduct a risk management programme on the smart cards systems that are employed in e-business systems, suggest the best safeguards to be applied to better secure the smart card systems depending on the services and applications the smart card serves, and produce a simulation tool using a high level of abstraction programming language to be able to test the robustness of the proposed solutions. The study contributions are producing a Risk Analysis Guide specifically on smart card systems to support managerial decision making, modelling the current and proposed smart card systems

including modelling the possible attacks using the Unified Modelling Language (UML) diagrams, and developing an executable model using SystemC and Transaction Level Modelling (TLM) extensions, which is a new way of modelling and testing smart card systems security. The security objectives have to be considered during the early stages of systems development and design; an executable model will give the designer the advantage of identifying vulnerabilities at an early stage, and therefore enhance the system security. The developed model is used to examine the effectiveness of number of authentication mechanisms with different probabilities of failure. Numbers of probable attacks on the current security protocol are modeled to identify vulnerabilities. The executable model shows that the smart card system security protocols and transactions need further improvement to withstand different types of security attacks.

SMART CARD RESEARCH AND

ADVANCED APPLICATIONS

Springer Science & Business Media
This book constitutes the thoroughly refereed post-proceedings of the First International Java Card Workshop held in Cannes, France, in September 2000. The 11 revised full papers presented were carefully reviewed and selected for inclusion in the book together with one invited paper. All current theoretical and application-oriented aspects of smart card security based on Java Card language programs are addressed.

SMART CARD RESEARCH AND ADVANCED APPLICATIONS

ScholarlyEditions
This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Smart Card Research and Advanced Applications, CARDIS 2013, held in Berlin, Germany, in November 2013. The 17 revised full papers presented in this book were carefully reviewed and selected from 47 submissions. The papers are organized

in topical sections on security technologies; attacks on masking; side channel attacks; software and protocol analysis; side channel countermeasures; and side channel and fault attacks.

Smart Card Programming IGI Global
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Smart Card Programming and Security Springer Science & Business Media
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SMART CARD HANDBOOK

John Wiley & Sons

This volume constitutes the thoroughly refereed post-proceedings of the Third International Conference on Smart Card Research and Advanced Applications, CARDIS'98, held in Louvain-la-Neuve, Belgium in September 1998. The 35 revised full papers presented were carefully reviewed and updated for inclusion in this book. All current aspects of smart card research and applications development are addressed, in particular: Java cards, electronic commerce, efficiency, security (including cryptographic algorithms, cryptographic protocols, and authentication), and architecture.

Banking and Finance on the Internet Springer

In today's world, smart cards play an increasingly important role in everyday life. We encounter them as credit cards, loyalty cards, electronic purses, health cards, and as secure tokens for authentication or digital signature. Their small size and the compatibility of their form with the magnetic stripe card make them the ideal carriers of personal information such as secret keys, passwords, customization profiles, and medical emergency information. This book provides a guide for the rapid development of smart card applications using Java and the OpenCard Framework. It gives you the basic information you need about smart cards and how they work. It shows in detail how to develop applications that use smart cards by guiding you through examples step by step. A smart card provided along with the book will help you to quickly get some first hands-on experience. Das Buch bietet erstmals einen Leitfaden zur Entwicklung von Smartcard-Anwendungen mit Java (JDK ab Version 1.1.6) und OCF 1.1.1 auf dem Computer, sowie zur Entwicklung von Java Applets, die direkt auf einer Karte (Java Card) ausgeführt werden. Der erste Teil führt konzise in Grundlagen, Technologie und Anwendungsmöglichkeiten von Smartcard ein. Im zweiten Teil werden Ziel, Konzept, Architektur und Komponenten des OpenCard Framework detailliert beschrieben. Der dritte Teil demonstriert anhand einfacher Beispiele Aufbau und Design komplexer Anwendungen für den Karten- und den Host-Teil. Mit der beiliegenden Multi Function Card lassen sich die beschriebenen Beispiele leicht

ausführen und weiterentwickeln.

Advances in Information Technology Research and Application: 2013 Edition Prentice Hall Professional

This is the third revised edition of the established and trusted RFID Handbook; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains information on electronic product code (EPC) and the EPC global network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-date details on relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic circuits of simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the large and varied world of RFID, Klaus Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID products. Computer and electronics engineers in security system development, microchip designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics and industrial engineering design. Klaus Finkenzeller was awarded the Fraunhofer-Smart Card Prize 2008 for the second edition of this publication, which was celebrated for being an outstanding contribution to the smart card field.

SMART CARD APPLICATIONS

MacMillan Technical Publishing

This book constitutes the thoroughly refereed post-conference proceedings of the 10th IFIP WG 8.8/11.2 International Conference on Smart Card Research and Advanced Applications, CARDIS 2011, held in Leuven, Belgium, in September 2011. The 20 revised full papers presented were carefully reviewed and selected from 45 submissions. The papers are organized in

topical sections on smart cards system security, invasive attacks, new algorithms and protocols, implementations and hardware security, non-invasive attacks, and Java card security.

Smart Card Research and Advanced Applications VI Springer

This book constitutes the thoroughly refereed post-proceedings of the International Workshop on Construction and Analysis of Safe, Secure, and Interoperable Smart Devices, CASSIS 2004, held in Marseille, France in March 2004. The 13 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers are devoted to trends in smart card research, operating systems and virtual machine technologies, secure platforms, security, application validation, verification, and formal modeling and formal methods.

Smart Cards Springer

A practical guide to the specification, design, and programming of smart card systems for working applications. More than 3 billion smartcards are produced every year. Generally defined as any pocket-sized card with embedded integrated circuits or chips, they have a huge number of applications including travel cards, chip and pin cards, pet tags, mobile phone SIMs and pallet trackers. Now with modern Smart Card technology such as Java Card and Basic Card it is possible for everyone to create his or her own applications on a smart card. This book provides generic solutions for programming smart cards, enabling the creation of working applications and systems. Key features: Presents a comprehensive introduction to the topic of smart cards, explaining component elements and the smart card microcontrollers. Sets out information on operating systems with case studies of a range of applications including credit card security, mobile phones and transport payment cards. Gives detailed advice on the monitoring of smart card applications, recognizing potential attacks on security and improving system integrity. Provides modules and examples so that all types of systems can be built up from a small number of individual components. Offers guidelines on avoiding and overcoming design errors. Ideal for practising engineers and designers looking to implement smart cards in their business, it is also a valuable reference for postgraduate students taking courses on embedded system and smart card design. [Smart Card. Research and Applications](#) Springer

The explosive demand for mobile

communications is driving the development of wireless technology at an unprecedented pace. Unfortunately, this exceptional growth is also giving rise to a myriad of security issues at all levels-from subscriber to network operator to service provider. Providing technicians and designers with a critical and comprehensive

Secure Smart Embedded Devices, Platforms and Applications Springer Science & Business Media

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.

Information Security Addison-Wesley Professional

This volume constitutes the refereed proceedings of the 7th International Conference on Smart Card Research and Advanced Applications, CARDIS 2006, held in Tarragona, Spain, in April 2006. The 25 revised full papers presented were carefully reviewed and updated for inclusion in this book. The papers are organized in topical sections on smart card applications, side channel attacks, smart card networking, cryptographic protocols, RFID security, and formal methods.

Smart Card Programming and Security Association of Scientists, Developers and Faculties

This book constitutes the refereed proceedings of the Second International Conference on Research in Smart Cards, E-smart 2001, held in Cannes, France, in September 2001. The 20 revised full papers presented were carefully reviewed and selected from 38 submissions. Among the topics addressed are biometrics, cryptography and electronic signatures on smart card security, formal methods for smart card evaluation and certification, architectures for multi-applications and secure open platforms, and middleware for smart cards and novel applications of smart cards.

JAVA CARD FOR E-PAYMENT APPLICATIONS

Springer Science & Business Media

As a working tool for professionals, this easy-to-understand resource provides clear, detailed guidance on smart, credit and debit cards, JavCard and OpenCard Framework.

Java on Smart Cards CRC Press

As the field of information technology continues to grow and expand, it impacts more and more organizations worldwide. The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications. This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed. This valuable book is a compilation of the latest research in the area of IT utilization and management.

Smart Card Research and Advanced Applications Springer Science & Business Media

This book constitutes the refereed proceedings of the 8th International Conference on Smart Card Research and Advanced Applications, CARDIS 2008, held in London, UK, in September 2008. The 21 revised full papers presented, together with the abstract of one invited talk, were carefully reviewed and selected from 51 submissions. The papers deal with the various issues related to the use of small electronic tokens in the process of human-machine interactions. The conference scopes include numerous subfields such as networking, efficient implementations, physical security, biometrics, etc.

Construction and Analysis of Safe, Secure, and Interoperable Smart Devices Artech House

A state-of-the-art guide to middleware technologies, and their pivotal role in communications networks. Middleware is about integration and interoperability of applications and services running on heterogeneous computing and communications devices. The services it provides - including identification, authentication, authorization, soft-switching, certification and security - are used in a vast range of global appliances and systems, from smart cards and wireless devices to mobile services and e-Commerce. Qusay H. Mahmoud has created an invaluable reference tool that explores the origins and current uses of middleware (highlighting the importance of such technologies as CORBA, J2EE and JMS) and has thus compiled the roadmap to future research in this area. *Middleware for Communications*: discusses the emerging fields of Peer-to-Peer (P2P) and grid middleware detailing middleware platforms such as JXTA and the Globus middleware toolkit. shows how Middleware will play a significant role in mobile computing. presents a Platform Supporting Mobile Applications (PLASMA) - a middleware platform that consists of

components for location, event, and profile handling of Location-Based Services. introduces middleware security focusing on the appropriate aspects of CORBA, J2EE, and .NET and demonstrates how to realize complex security capabilities such as role-based access control (RBAC) and mandatory access control (MAC). discusses how Quality of Service (QoS) component middleware can be combined with Model Driven Architecture (MDA) technologies to rapidly develop, generate,

assemble and deploy flexible communications applications. This incomparable overview of middleware for communications is suitable for graduate students and researchers in communications and computing departments. It is also an authoritative guide for engineers and developers working on distributed systems, mobile computing and networked appliances.

JAVA ON SMART CARDS

Springer Science & Business Media

This volume provides the academic and industrial community with a medium for presenting original research and applications related to information assurance and security using computational intelligence techniques. It details current research on information assurance and security regarding both the theoretical and methodological aspects, as well as various applications in solving real world problems using computational intelligence.

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