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KEY=AND - AVA PHOENIX

RFID Handbook Fundamentals and Applications in Contactless Smart Cards, Radio Frequency Identification and Near-Field Communication John Wiley & Sons 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. **Development and Implementation of RFID Technology BoD - Books on Demand** The book generously covers a wide range of aspects and issues related to RFID systems, namely the design of RFID antennas, RFID readers and the variety of tags (e.g. UHF tags for sensing applications, surface acoustic wave RFID tags, smart RFID tags), complex RFID systems, security and privacy issues in RFID applications, as well as the selection of encryption algorithms. The book offers new insights, solutions and ideas for the design of efficient RFID architectures and applications. While not pretending to be comprehensive, its wide coverage may be appropriate not only for RFID novices but also for experienced technical professionals and RFID aficionados. **RFID and Contactless Smart Card Applications John Wiley & Sons Incorporated** An insightful and practical guide to the use of RFID. The author's professional experience is used to great effect to de-mystify RFID, which is becoming one of the fastest growing sectors of the radio technology industry. Building on Paret's previous technical guide it covers a variety of topics in an accessible manner. **A Billion Little Pieces RFID and Infrastructures of Identification MIT Press** How RFID, a ubiquitous but often invisible mobile technology, identifies tens of billions of objects as they move through the world. RFID (Radio Frequency Identification) is ubiquitous but often invisible, a mobile technology used by more people more often than any flashy smartphone app. RFID systems use radio waves to communicate identifying information, transmitting data from a tag that carries data to a reader that accesses the data. RFID tags can be found in credit cards, passports, key fobs, car windshields, subway passes, consumer electronics, tunnel walls, and even human and animal bodies—identifying tens of billions of objects as they move through the world. In this book, Jordan Frith looks at RFID technology and its social impact, bringing into focus a technology that was designed not to be noticed. RFID, with its ability to collect unique information about almost any material object, has been hyped as the most important identification technology since the bar code, the linchpin of the Internet of Things—and also seen (by some evangelical Christians) as a harbinger of the end times. Frith views RFID as an infrastructure of identification that simultaneously functions as an infrastructure of communication. He uses RFID to examine such larger issues as big data, privacy, and surveillance, giving specificity to debates about societal trends. Frith describes how RFID can monitor hand washing in hospitals, change supply chain logistics, communicate wine vintages, and identify rescued pets. He offers an accessible explanation of the technology, looks at privacy concerns, and pushes back against alarmist accounts that exaggerate RFID's capabilities. The increasingly granular practices of identification enabled by RFID and other identification technologies, Frith argues, have become essential to the working of contemporary networks, reshaping the ways we use information. **Smart Cards, Tokens, Security and Applications Springer** This book provides a broad overview of the many card systems and solutions that are in practical use today. This new edition adds content on RFIDs, embedded security, attacks and countermeasures, security evaluation, javacards, banking or payment cards, identity cards and passports, mobile systems security, and security management. A step-by-step approach educates the reader in card types, production, operating systems, commercial applications, new technologies, security design, attacks, application development, deployment and lifecycle management. By the end of the book the reader should be able to play an educated role in a smart card related project, even to programming a card application. This book is designed as a textbook for graduate level students in computer science. It is also as an invaluable post-graduate level reference for professionals and researchers. This volume offers insight into benefits and pitfalls of diverse industry, government, financial and logistics aspects while providing a sufficient level of technical detail to support technologists, information security specialists,

engineers and researchers. **Smart Card Research and Advanced Applications 8th IFIP WG 8.8/11.2 International Conference, CARDIS 2008, London, UK, September 8-11, 2008, Proceedings Springer** 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. **ISSE 2011 Securing Electronic Business Processes Highlights of the Information Security Solutions Europe 2011 Conference Springer** This book presents the most interesting talks given at ISSE 2011 – the forum for the inter-disciplinary discussion of how to adequately secure electronic business processes. The topics include: - Cloud Computing & Enterprise Security Services - Awareness, Education, Privacy & Trustworthiness - Smart Grids, Mobile & Wireless Security - Security Management, Identity & Access Management - eID & eGovernment - Device & Network Security Adequate information security is one of the basic requirements of all electronic business processes. It is crucial for effective solutions that the possibilities offered by security technology can be integrated with the commercial requirements of the applications. The reader may expect state-of-the-art: best papers of the Conference ISSE 2011. **RFID Security and Privacy 7th International Workshop, RFIDsec 2011, Amherst, MA, USA, June 26-28, 2011, Revised Selected Papers Springer Science & Business Media** This book constitutes the thoroughly refereed post-workshop proceedings of the 7th International Workshop Radio Frequency Identification: Security and Privacy Issues. RFIDsec 2011, held in Amherst, Massachusetts, USA, in June 2011. The 12 revised full papers presented were carefully reviewed and selected from 21 initial submissions for inclusion in the book. The papers focus on minimalism in cryptography, on-tag cryptography, securing RFID with physics, and protocol-level security in RFID. **Arduino Applied Comprehensive Projects for Everyday Electronics Apress** Extend the range of your Arduino skills, incorporate the new developments in both hardware and software, and understand how the electronic applications function in everyday life. This project-based book extends the Arduino Uno starter kits and increases knowledge of microcontrollers in electronic applications. Learn how to build complex Arduino projects, break them down into smaller ones, and then enhance them, thereby broadening your understanding of each topic. You'll use the Arduino Uno in a range of applications such as a blinking LED, route mapping with a mobile GPS system, and uploading information to the internet. You'll also apply the Arduino Uno to sensors, collecting and displaying information, Bluetooth and wireless communications, digital image captures, route tracking with GPS, controlling motors, color and sound, building robots, and internet access. With *Arduino Applied*, prior knowledge of electronics is not required, as each topic is described and illustrated with examples using the Arduino Uno. **What You'll Learn** Set up the Arduino Uno and its programming environment Understand the application of electronics in every day systems Build projects with a microcontroller and readily available electronic components Who This Book Is For Readers with an Arduino starter-kit and little-to-no programming experience and those interested in "how electronic appliances work." **Information Security Applications 10th International Workshop, WISA 2009, Busan, Korea, August 25-27, 2009, Revised Selected Papers Springer Science & Business Media** This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Workshop on Information Security Applications, WISA 2009, held in Busan, Korea, during August 25-27, 2009. The 27 revised full papers presented were carefully reviewed and selected from a total of 79 submissions. The papers are organized in topical sections on multimedia security, device security, HW implementation security, applied cryptography, side channel attacks, cryptographtanalysis, anonymity/authentication/access controll, and network security. **Inside Radio: An Attack and Defense Guide Springer** This book discusses the security issues in a wide range of wireless devices and systems, such as RFID, Bluetooth, ZigBee, GSM, LTE, and GPS. It collects the findings of recent research by the UnicornTeam at 360 Technology, and reviews the state-of-the-art literature on wireless security. The book also offers detailed case studies and theoretical treatments – specifically it lists numerous laboratory procedures, results, plots, commands and screenshots from real-world experiments. It is a valuable reference guide for practitioners and researchers who want to learn more about the advanced research findings and use the off-the-shelf tools to explore the wireless world. **Practical IoT Hacking The Definitive Guide to Attacking the Internet of Things No Starch Press** Written by all-star security experts, *Practical IoT Hacking* is a quick-start conceptual guide to testing and exploiting IoT systems and devices. Drawing from the real-life exploits of five highly regarded IoT security researchers, *Practical IoT Hacking* teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems. You'll also learn how to: Write a DICOM service scanner as an NSE module Hack a microcontroller through the UART and SWD interfaces Reverse engineer firmware and analyze mobile companion apps Develop an NFC fuzzer using Proxmark3 Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find *Practical IoT Hacking* indispensable in your efforts to hack all the things **REQUIREMENTS:** Basic knowledge of Linux command line, TCP/IP, and programming **Radio Frequency Identification: Security and Privacy Issues Security and Privacy Issues 9th International Workshop, RFIDsec 2013, Graz, Austria, July 9-11, 2013, Revised Selected Papers Springer** This book constitutes the proceedings of the 9th Workshop on RFID Security and Privacy. RFIDsec 2013, held in Graz, Austria, in July 2013. The 11 papers presented in this volume were carefully reviewed and selected from 23 submissions. RFIDsec deals with topics of importance to improving the security and privacy of RFID, NFC, contactless technologies, and the Internet of Things. RFIDsec bridges the gap between cryptographic researchers and RFID developers. **Security in RFID and Sensor Networks CRC Press** In the past several years, there has been an increasing trend in the use of Radio Frequency Identification (RFID) and Wireless Sensor Networks (WSNs) as well as in the integration of both systems due to their complementary nature, flexible combination, and the demand for ubiquitous computing. As always, adequate security remains one of the open areas of concern before wide deployment of RFID and WSNs can be achieved. *Security in RFID and Sensor Networks* is the first book to offer a comprehensive discussion on the security challenges and solutions in RFID, WSNs, and integrated RFID and WSNs, providing an essential reference for those who regularly interface with these versatile technologies. **Exposes Security Risks** The book begins with a

discussion of current security issues that threaten the effective use of RFID technology. The contributors examine multi-tag systems, relay attacks, authentication protocols, lightweight cryptography, and host of other topics related to RFID safety. The book then shifts the focus to WSNs, beginning with a background in sensor network security before moving on to survey intrusion detection, malicious node detection, jamming, and other issues of concern to WSNs and their myriad of applications. Offers Viable Solutions In each chapter, the contributors propose effective solutions to the plethora of security challenges that confront users, offering practical examples to aid in intuitive understanding. The last part of the book reviews the security problems inherent in integrated RFID & WSNs. The book ends with a glimpse of the future possibilities in these burgeoning technologies and provides recommendations for the proactive design of secure wireless embedded systems.

Computer Security - ESORICS 2008 13th European Symposium on Research in Computer Security, Málaga, Spain, October 6-8, 2008. Proceedings Springer These proceedings contain the papers selected for presentation at the 13th European Symposium on Research in Computer Security--ESORICS 2008--held October 6-8, 2008 in Torremolinos (Malaga), Spain, and hosted by the University of Malaga, Computer Science Department. ESORICS has become the European research event in computer security. The symposium started in 1990 and has been organized on alternate years in different European countries. From 2002 it has taken place yearly. It attracts an international audience from both the academic and industrial communities. In response to the call for papers, 168 papers were submitted to the symposium. These papers were evaluated on the basis of their significance, novelty, and technical quality. Each paper was reviewed by at least three members of the Program Committee. The Program Committee meeting was held electronically, holding intensive discussion over a period of two weeks. Finally, 37 papers were selected for presentation at the symposium, giving an acceptance rate of 22%.

Handbook of Research on Mobility and Computing: Evolving Technologies and Ubiquitous Impacts Evolving Technologies and Ubiquitous Impacts IGI Global Discusses the main issues, challenges, opportunities, and trends related to this explosive range of new developments and applications, in constant evolution, and impacting every organization and society as a whole. This two volume handbook supports post-graduate students, teachers, and researchers, as well as IT professionals and managers.

RFID Handbook Fundamentals and Applications in Contactless Smart Cards and Identification Wiley RFID (Radio Frequency Identification) is used in all areas of automatic data capture allowing contactless identification of objects using RF. With applications ranging from secure internet payment systems to industrial automation and access control, RFID technology solutions are receiving much attention in the research and development departments of large corporations. RFID is a major growth area in auto ID, allowing emergency vehicles to safely trip traffic signals, and providing the technology behind contactless smart cards, "autopiloting" cars, and production automation. Fully revised and updated to include all the latest information on industry standards and applications, this new edition provides a standard reference for people working with RFID technology. Expanded sections explain exactly how RFID systems work, and provide up-to-date information on the development of new tags such as the smart label. Updated coverage of RFID technologies, including electron data carrier architecture and common algorithms for anticollision Details the latest RFID applications, such as the smartlabel, e-commerce and the electronic purse, document tracking and e-ticketing Detailed appendix providing up-to-date information on relevant ISO standards and regulations, including descriptions of ISO 14443 for contactless ticketing and ISO 15693 covering the smartlabel A leading edge reference for this rapidly evolving technology, this text is of interest to practitioners in auto ID and IT designing RFID products and end-users of RFID technology, computer and electronics engineers in security system development and microchip designers, automation, industrial and transport engineers and materials handling specialists. Also a valuable resource for graduate level students in electronics and industrial engineering design.

Highlights on Practical Applications of Agents and Multi-Agent Systems 10th International Conference on Practical Applications of Agents and Multi-Agent Systems Springer Science & Business Media Research on Agents and Multi-Agent Systems has matured during the last decade and many effective applications of this technology are now deployed. PAAMS provides an international forum to present and discuss the latest scientific developments and their effective applications, to assess the impact of the approach, and to facilitate technology transfer. PAAMS started as a local initiative, but has since grown to become THE international yearly platform to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development and deployment of Agents and Multi-Agent Systems. PAAMS intends to bring together researchers and developers from industry and the academic world to report on the latest scientific and technical advances on the application of multi-agent systems, to discuss and debate the major issues, and to showcase the latest systems using agent based technology. It will promote a forum for discussion on how agent-based techniques, methods, and tools help system designers to accomplish the mapping between available agent technology and application needs. Other stakeholders should be rewarded with a better understanding of the potential and challenges of the agent-oriented approach. This edition of PAAMS special sessions. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (<http://bisite.usal.es/http://bisite.usal.es/>) of the University of Salamanca. The present edition will be held in Salamanca, Spain, from 28th to 30th March 2012. This edition of PAAMS special sessions. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (<http://bisite.usal.es/http://bisite.usal.es/>) of the University of Salamanca. The present edition will be held in Salamanca, Spain, from 28th to 30th March 2012.

Mobile Computing, Applications, and Services Third International Conference, MobiCASE 2011, Los Angeles, CA, USA, October 24-27, 2011. Revised Selected Papers Springer This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Mobile Computing, Applications, and Services (MobiCASE 2011) held in Los Angeles, CA, USA, during October 24-27, 2010. The 18 revised full papers presented together with 12 revised poster papers were carefully reviewed and selected from numerous submissions. The conference papers are organized in seven technical sessions, covering the topics of mobile pervasive applications, system issues, location-aware services, mobile phone based systems, mobile Web and services, tools for mobile environments, and mobile application development issues.

Cryptographic Hardware and Embedded Systems - CHES 2007 9th International Workshop, Vienna, Austria, September 10-13, 2007, Proceedings Springer This book constitutes the refereed proceedings of the 9th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2007. The 31 revised full papers cover side channels, low resources, hardware attacks and countermeasures, special purpose hardware, efficient algorithms for embedded processors, efficient hardware, trusted computing.

Encyclopedia of Information Science and Technology IGI Global Snippet "This set of books represents a detailed compendium

of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Information Security and Cryptology - ICISC 2010 13th International Conference, Seoul, Korea, December 1-3, 2010, Revised Selected Papers Springer This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Conference on Information Security and Cryptology, held in Seoul, Korea, in December 2010. The 28 revised full papers presented were carefully selected from 99 submissions during two rounds of reviewing. The conference provides a forum for the presentation of new results in research, development, and applications in the field of information security and cryptology. The papers are organized in topical sections on cryptanalysis, cryptographic algorithms, implementation, network and mobile security, symmetric key cryptography, cryptographic protocols, and side channel attack.

The Internet of Things Connecting Objects to the Web John Wiley & Sons Internet of Things: Connecting Objects puts forward the technologies and the networking architectures which make it possible to support the Internet of Things. Amongst these technologies, RFID, sensor and PLC technologies are described and a clear view on how they enable the Internet of Things is given. This book also provides a good overview of the main issues facing the Internet of Things such as the issues of privacy and security, application and usage, and standardization.

ECIW2009- 8th European Conference on Information Warfare and Security ECIW 2009 Academic Conferences Limited Near Field Communications Handbook CRC Press From basic concepts to research grade material and future directions, the Near Field Communications Handbook provides comprehensive technical coverage of this rapidly emerging field. Walking readers through emerging applications, it offers a glimpse at a future in which near field communication (NFC) technology is fully integrated into daily life.

Proceedings of the International Conference on Information Engineering and Applications (IEA) 2012 Volume 1 Springer Science & Business Media Information engineering and applications is the field of study concerned with constructing information computing, intelligent systems, mathematical models, numerical solution techniques, and using computers and other electronic devices to analyze and solve natural scientific, social scientific and engineering problems. Information engineering is an important underpinning for techniques used in information and computational science and there are many unresolved problems worth studying. The Proceedings of the 2nd International Conference on Information Engineering and Applications (IEA 2012), which was held in Chongqing, China, from October 26-28, 2012, discusses the most innovative research and developments including technical challenges and social, legal, political, and economic issues. A forum for engineers and scientists in academia, industry, and government, the Proceedings of the 2nd International Conference on Information Engineering and Applications presents ideas, results, works in progress, and experience in all aspects of information engineering and applications.

Cryptographic Hardware and Embedded Systems -- CHES 2011 13th International Workshop, Nara, Japan, September 28 -- October 1, 2011, Proceedings Springer This book constitutes the proceedings of the 13th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2011, held in Nara, Japan, from September 28 until October 1, 2011. The 32 papers presented together with 1 invited talk were carefully reviewed and selected from 119 submissions. The papers are organized in topical sections named: FPGA implementation; AES; elliptic curve cryptosystems; lattices; side channel attacks; fault attacks; lightweight symmetric algorithms, PUFs; public-key cryptosystems; and hash functions.

Ambient Assisted Living Third International Workshop, IWAAL 2011, Held at IWANN 2011, Torremolinos-Málaga, Spain, June 8-10, 2011, Proceedings Springer Science & Business Media This book constitutes the refereed proceedings of the Third International Workshop on Ambient Assisted Living, IWAAL 2011, held in Torremolinos-Málaga, Spain, in June 2011 as a satellite event of IWANN 2011, the International Work-Conference on Artificial and Natural Neural Networks.. The 30 papers presented were carefully reviewed and selected from numerous submissions. They are organized in topical sections on mobile proposals for AAL, applications for cognitive impairments, e-health, smart and wireless sensors, applied technologies, frameworks and platforms, and methodologies and brain interfaces.

Blockchain Applications in the Smart Era Springer Nature Research and Development Management Technology Journey through Analysis, Forecasting and Decision Making Springer This book introduces readers to essential technology assessment and forecasting tools, demonstrating their use on the basis of multiple cases. As organizations in the high-tech industry need to be able to assess emerging technologies, the book presents cases in which formal decision-making models are developed, providing a framework for decision-making in the context of technology acquisition and development. Applications of different technology forecasting tools are also discussed for a range of technologies and sectors, providing a guide to keep R&D organizations abreast of technological trends that affect their business. As such, the book offers a valuable theoretical and practical reference guide for R&D managers responsible for emerging and future technologies.

Crisis Management: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global "This book explores the latest empirical research and best real-world practices for preventing, weathering, and recovering from disasters such as earthquakes or tsunamis to nuclear disasters and cyber terrorism"--Provided by publisher.

Smart Card Research and Advanced Applications 14th International Conference, CARDIS 2015, Bochum, Germany, November 4-6, 2015. Revised Selected Papers Springer This book constitutes the thoroughly refereed post-conference proceedings of the 14th International Conference on Smart Card Research and Advanced Applications, CARDIS 2015, held in Bochum, Germany, in November 2015. The 17 revised full papers presented in this book were carefully reviewed and selected from 40 submissions. The focus of the conference was on all aspects of the design, development, deployment, validation, and application of smart cards and secure elements in secure platforms or systems.

Information Security Theory and Practice. Securing the Internet of Things 8th IFIP WG 11.2 International Workshop, WISTP 2014, Heraklion, Crete, Greece, June 30 - July 2, 2014, Proceedings Springer This volume constitutes the refereed proceedings of the 8th IFIP WG 11.2 International Workshop on Information Security Theory and Practices, WISTP 2014, held in Heraklion, Crete, Greece, in June/July 2014. The 8 revised full papers and 6 short papers presented together with 2 keynote talks were carefully reviewed and selected from 33 submissions. The papers have been organized in topical sections on cryptography and cryptanalysis, smart cards and embedded devices, and privacy.

Proceedings of the Future Technologies Conference (FTC) 2021, Volume 3 Springer Nature Information Security Theory and Practices. Smart Cards, Mobile and Ubiquitous Computing Systems First IFIP TC6 / WG 8.8 / WG 11.2 International Workshop, WISTP 2007, Heraklion, Crete, Greece, May 9-11, 2007 Springer Science & Business Media 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. **Innovative Applications of Big Data in the Railway Industry IGI Global** Use of big data has proven to be beneficial within many different industries, especially in the field of engineering; however, infiltration of this type of technology into more traditional heavy industries, such as the railways, has been limited. *Innovative Applications of Big Data in the Railway Industry* is a pivotal reference source for the latest research findings on the utilization of data sets in the railway industry. Featuring extensive coverage on relevant areas such as driver support systems, railway safety management, and obstacle detection, this publication is an ideal resource for transportation planners, engineers, policymakers, and graduate-level engineering students seeking current research on a specific application of big data and its effects on transportation. **Security Issues in Mobile NFC Devices Springer** This work provides an assessment of the current state of near field communication (NFC) security, it reports on new attack scenarios, and offers concepts and solutions to overcome any unresolved issues. The work describes application-specific security aspects of NFC based on exemplary use-case scenarios and uses these to focus on the interaction with NFC tags and on card emulation. The current security architectures of NFC-enabled cellular phones are evaluated with regard to the identified security aspects. **Human ICT Implants: Technical, Legal and Ethical Considerations Springer Science & Business Media** Human information and communication technology (ICT) implants have developed for many years in a medical context. Such applications have become increasingly advanced, in some cases modifying fundamental brain function. Today, comparatively low-tech implants are being increasingly employed in non-therapeutic contexts, with applications ranging from the use of ICT implants for VIP entry into nightclubs, automated payments for goods, access to secure facilities and for those with a high risk of being kidnapped. Commercialisation and growing potential of human ICT implants have generated debate over the ethical, legal and social aspects of the technology, its products and application. Despite stakeholders calling for greater policy and legal certainty within this area, gaps have already begun to emerge between the commercial reality of human ICT implants and the current legal frameworks designed to regulate these products. This book focuses on the latest technological developments and on the legal, social and ethical implications of the use and further application of these technologies. **Smart Card Programming Lulu.com** With Smart Card Programming the reader will have the expert guidance he need to work with smart cards. The book offers a comprehensive guide, to the technological aspects related to smart cards, providing an high level overview of the technological panorama and giving an in-depth technical coverage about the related architectures, programming paradigms and APIs. The first part of the book introduces the smart card technologies, the general concepts and a few case studies. It is addressed also to non-technical reader who wishes an high level overview on smart card world. The second part of the book is a technical guide to smart card specifications and programming paradigms. It dives into technical topics about smart card programming and applications development in C/C++, C#, Visual Basic and Java. Key features include: - Contact and Contactless Cards - ISO 7816 - NFC - JavaCard Framework - PC/SC - PKCS#11 - OpenCard Framework - Java - Smart Card I/O - GlobalPlatform - EMV **Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global** "This publication covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life"--Provided by publisher.