

Rfid Mifare And Contactless Cards In Application

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Blockchain Applications in the Smart Era - Sanjay Misra 2022

This book covers a variety of topics and trends related to blockchain technology for smart era applications. The applications span industries such as transportation, manufacturing, agriculture, finance, retail, logistics, information systems, all far beyond blockchain's original use in cyptocurrency. The authors present variants, new models, practical solutions, and technological advances related to blockchain in these fields and more. The applications within these fields include blockchain and cybersecurity, IoT security and privacy using blockchain, security using blockchain for robots, and blockchain in industries 4.0 and society 5.0. A variety of case studies are also included. The book is applicable to researchers, professionals, students, and professors in a variety of fields in communications engineering. Presents challenges and trends in blockchain for applications in manufacturing, health, security, and government finance; Discusses the impact of blockchain on society and industry; Applicable to researchers, professionals, students, and professors in a variety of fields in communications engineering.

Encyclopedia of Information Science and Technology - Mehdi Khosrow-Pour 2009

"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.

Computer Security - ESORICS 2008 - Sushil Jajodia 2008-10-05

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 - Cruz-Cunha, Maria
Manuela 2011-04-30

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.

Radio Frequency Identification: Security and Privacy Issues - Michael Hutter 2013-10-31

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.

Recent Trends in Data Science and Soft Computing - Faisal Saeed 2018-09-08

This book presents the proceedings of the 3rd International Conference of Reliable Information and Communication Technology 2018 (IRICT 2018), which was held in Kuala Lumpur, Malaysia, on July 23-24, 2018. The main theme of the conference was "Data Science, AI and IoT Trends for the Fourth Industrial Revolution." A total of 158 papers were submitted to the conference, of which 103 were accepted and considered for publication in this book. Several hot research topics are covered, including Advances in Data Science and Big Data Analytics, Artificial Intelligence and Soft Computing, Business Intelligence, Internet of Things (IoT) Technologies and Applications, Intelligent Communication Systems, Advances in Computer Vision, Health Informatics, Reliable Cloud Computing Environments, Recent Trends in Knowledge Management, Security Issues in the Cyber World, and Advances in Information Systems Research, Theories and Methods.

ISSE 2011 Securing Electronic Business Processes - Norbert Pohlmann 2019-06-07

This book presents the most interesting talks given at ISSE 2011 - the forum for the interdisciplinary 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.

Security in RFID and Sensor Networks - Paris Kitsos 2016-04-19

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.

Smart Cards, Tokens, Security and Applications - Keith Mayes 2017-05-18

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.

Information Security and Cryptology - ICISC 2010 - Kyung-Hyune Rhee 2011-08-30

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.

Practical IoT Hacking - Fotios Chantzis

2021-03-23

The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet connected devices such as medical devices, home assistants, smart home appliances and more.

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

Smart Card Research and Advanced Applications - Naofumi Homma 2016-03-18

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 Applications - Heung Youl Youm 2010-01-08

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, cryptographanalysis, anonymity/authentication/access controll, and network security.

Mobile Computing, Applications, and Services - Joy Zhang 2012-07-16

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.

Information Security Theory and Practices. Smart Cards, Mobile and Ubiquitous Computing Systems - Damien Sauveron 2007-04-25

This volume constitutes the refereed proceedings of the First IFIP TC6 / WG 8.8 / WG 11.2 International Workshop on Information Security Theory and Practices: Smart Cards, Mobile and Ubiquitous Computing Systems, WISTP 2007, held in Heraklion, Crete, Greece in May 2007. The 20 revised full papers are organized in topical sections on mobility, hardware and cryptography, privacy, cryptography schemes, smart cards, and small devices.

Inside Radio: An Attack and Defense Guide - Qing Yang 2018-03-19

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.

RFID - Gerhard H.. Schalk 2013

Crisis Management: Concepts, Methodologies, Tools, and Applications - Management

Association, Information Resources 2013-11-30

"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.

Ambient Assisted Living - Jose Bravo 2011-05-30

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.

Software Networks - Guy Pujolle 2020-01-08

Software Networks describe new concepts for the Internet's next generation. This architecture is based on virtual networking using Cloud and datacenter facilities. The main problems to be dealt with are the placement of virtual resources for opening a new network on the fly, and the urbanization of virtual resources implemented on physical network equipment. The digital architecture also deals with mechanisms capable of automatically controlling the placement of all

virtual resources within the physical network. This book describes how to create and delete virtual networks on the fly. Indeed, the system is able to create any new network with any kind of virtual resource (e.g. switches, routers, LSRs, optical paths, firewalls, SIP-based servers, devices, servers, access points, etc.). Software Networks shows how this architecture is compatible with new advances in SDN (Software Defined Networking), new high-speed transport protocols such as TRILL (Transparent Interconnection of Lots of Links) and LISP (Locator/Identifier Separation Protocol), NGN, IMS, new generation Wi-Fi, and 4G/5G networks. Finally, the author introduces Clouds of security and the virtualization of secure elements (smartcards) that could certainly transform how to secure the Internet. For this second edition, the author addresses in five new chapters the importance of open source software for networks, mobile edge computing, fog networking, tactile internet - a network environment allowing remote access, and security - the use of Cloud of security, secure elements and the emergence of the blockchain. *RFID and Contactless Smart Card Applications* - Dominique Paret 2005-10-14

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.

Information Security Theory and Practice.

Securing the Internet of Things - David Naccache 2014-06-25

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.

Arduino Applied - Neil Cameron 2018-12-26
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."

Financial Cryptography and Data Security - Radu Sion 2010-07-15

This book constitutes the thoroughly refereed post-conference proceedings of the 14th International Conference on Financial Cryptography and Data Security, FC 2010, held in Tenerife, Canary Islands, Spain in January 2010. The 19 revised full papers and 15 revised short papers presented together with 1 panel report and 7 poster papers were carefully reviewed and selected from 130 submissions. The papers cover all aspects of securing transactions and systems and feature current research focusing on both fundamental and applied real-world deployments on all aspects surrounding commerce security.

Radio Frequency Identification and IoT Security - Gerhard P. Hancke 2017-07-19

This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Workshop on Radio Frequency

Identification and IoT Security, RFIDSec 2016, held in Hong Kong, China, in November/December 2016. The 14 revised full papers were carefully reviewed and selected from 30 submissions and are organized in topical sections on protocols; side channel and hardware; cards and tokens; proximity; and communication.

ECIW2009- 8th European Conference on Information Warfare and Security - Henrique Santos 2009

Smart Card Research and Advanced Applications - Gilles Grimaud 2008-08-30

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.

Cryptographic Hardware and Embedded Systems - CHES 2007 - Pascal Paillier 2007-08-23

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.

Near Field Communications Handbook - Syed A. Ahson 2016-04-19

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.

RFID Security and Privacy - Ari Juels 2012-01-12

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.

Proceedings of the Future Technologies Conference (FTC) 2021, Volume 3 - Kohei Arai 2022

This book provides the state-of-the-art intelligent methods and techniques for solving real world problems along with a vision of the future research. The sixth Future Technologies Conference 2021 was organized virtually and received a total of 531 submissions from academic pioneering researchers, scientists, industrial engineers, and students from all over the world. The submitted papers covered a wide range of important topics including but not limited to technology trends, computing, artificial intelligence, machine vision, communication, security, e-learning and ambient intelligence and their applications to the real world. After a double-blind peer-reviewed process, 191 submissions have been selected to be included in these proceedings. One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies but also to promote discussions and debate of relevant issues, challenges, opportunities, and research findings. We hope that readers find the volume interesting, exciting, and inspiring.

A Billion Little Pieces - Jordan Frith 2019-03-19

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.

Computer Information Systems and Industrial Management - Khalid Saeed 2017-05-16

This book constitutes the proceedings of the 16th IFIP TC8 International Conference on Computer Information Systems and Industrial Management, CISIM 2017, held in Bialystok, Poland, in June 2017. The 60 regular papers presented together with 5 keynotes were carefully reviewed and Selected from 85 submissions. They are organized in the following topical sections: algorithms; biometrics and pattern recognition applications; data analysis and information retrieval; engineering of enterprise software products; industrial management and other applications; modelling and optimization; various aspects of computer

security.

Security Issues in Mobile NFC Devices -

Michael Roland 2015-02-11

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.

RFID Handbook - Klaus Finkenzeller 2003-05-23

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 - Javier Bajo Pérez 2012-03-08

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.

Development and Implementation of RFID Technology - Cristina Turcu 2009-01-01

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 Handbook - Klaus Finkenzeller 2010-11-04

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.

The Internet of Things - Hakima Chaouchi
2013-02-04

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.

Proceedings of the International Conference on Information Engineering and Applications (IEA) 2012 - Zhicai Zhong 2013-03-12

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.