Bookmark File Design And Construction Of An Rfid Enabled Infrastructure The Next Avatar Of The Internet Industrial And Systems Engineering Series 1st Edition By Prabhu Nagabhushana 2013 Hardcover Pdf File Free

RFID-enabled Cooperation in the Supply Chain Sep 27 2022
RFID Handbook Aug 27 2022 Radio Frequency Identification (RFID) tagging is now used by the department of defense and many of the world's largest retailers including Wal-Mart. As RFID continues to infiltrate industries worldwide, organizations must harness a clear understanding of this technology in order to maximize its potential and protect against the potential risks it poses. The RFID Handbook provides an overview of RFID technology, its associated security and privacy risks, and recommended practices that will enable organizations to realize productivity improvements while also protecting sensitive information and the privacy of individuals. Expert contributors present a host of applications including RFID enabled automated receiving, triage with RFID for massive incidents, RFID and NFC in relation to mobile phones, and RFID technologies for communication robots and a privacy preserving video surveillance system. The unprecedented coverage also includes detailed descriptions of adaptive splitting protocols as well as tree-based and probabilistic anti-collision protocols. Drawing on its distinguished editors and world-renowned contributors, this one-of-a-kind handbook serves as the ultimate reference on RFID, from basic research concepts to future applications.
RFID for Everyone Mar 29 2020 About This Book This book takes you on a self-guided journey of all the areas needed to understanding RFID from introduction to advanced concepts. In this book, you will find everything you need to pass the ETA RFID technical specialist exam. However, if you are just a layman trying to understand how RFID works this book can also help you. The question and answers section detail the entire subject matter and competency covers on the actual ETA RFID exam. . An exploration of RFID from beginning to advance

concept. This book tells the story of RFID and covering all the technical details from beginning to advance concepts. This book takes you from the very foundation of RFID through its architecture and communication technique, read range, and frequency selection. It explains how unique product identification can contributes to better supply chain management. RFID technology provides a means of identifying a person or object using radio frequency transmission. The technology can be used to identify, track, sort, or detect a wide variety of objects. Communication takes place between a reader, also called an interrogator and a transponder often called a tag. Tags can either be active which is powered by a battery or passively powered by the reader radio frequency (RF) field. According to the World Health Organization (WHO), more than 50% of vaccines produced globally lose their efficacy due to the lack of proper temp control, logistics, or shipment-related issues. Today companies are producing smart tags that can attach to a product that integrates light, temperature, humidity sensor, a microcontroller, memory chip that can log data store in memory together with traceability data. Hospitals are now taking advantage of RFID-enabled technology to improve the management of patient and employee safety during the pandemic. The adoption of RFID is accelerating in several sectors from retail, food production, process automation, aviation, manufacturing, and access control. RFID is currently being combined with artificial intelligence (AI) blockchain and data analytics to create even more business value. Companies like Avery Dennison are producing RFID inlays integrated with other triggers technologies to give physical items a unique identity, allowing them to connect to the internet. Companies like Ralph Lauren have partnered with real-time internet of things (IoT) solution providers and Avery Dennison to deliver digital product identity. Where solution provider Evrythny provides the cloud base infrastructure while Avery Dennison handle product serialized label enabling products to live a digital life. Therefore, the goal of this work is to assists anyone from laymen to technicians and engineers who may want to learn more about this exciting field of RFID. The work examines the full spectrum of RFID and explains how the adoption of this technology allows greater transparency and visibility of data. After completing this book, you will have a strong foundation in RFID architecture and RFID technology integration. You will also be better prepared to pass any certification RFID exam. This includes the ETA RFID Technical Specialist Certification. Chapter 1 Fundamentals of Electronics Chapter 2 RFID For EVERYONE Chapter 3 Tag Characteristic Operation and Implementation Chapter 4 Interrogation Zone Setup basic Chapter 5 RF Radio and Antennas Chapter 6 RFID READER Chapter 7 Design Selection Chapter 8 Site Surveys Chapter 9 RFID Technology Chapter 10 Review Questions Cover 80 Questions Answers including a detailed explanation of each question

Advanced Security and Privacy for RFID Technologies Dec 19 2021 "This book addresses security risks involved with RFID technologies, and gives insight on some possible solutions and preventions in dealing with these developing technologies"--

Strategic Information Systems: Concepts, Methodologies, Tools, and Applications Sep 23 2019 "This 4-volume set provides a compendium of comprehensive advanced research articles written by an international collaboration of experts involved with the strategic use of information systems"--Provided by publisher.

Understanding Computers: Today and Tomorrow, Comprehensive Apr 30 2020 Discover a modern introduction to computer concepts with UNDERSTANDING COMPUTERS: TODAY AND TOMORROW, COMPREHENSIVE, 16E. Known for a unique emphasis on societal issues and industry insights from respected leaders, this book provides reliable information to help readers learn about emerging technologies that may impact the way industries conduct business in the future. Readers become familiar with exciting technology developments and take a sneak peek at the future of modular smartphones, smartphone driver licenses, robot butlers and other robotic assistants, perceptual computing, smart clothes, 4K video, and emerging networking standards. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

On the Move to Meaningful Internet Systems: OTM 2009 Dec 07 2020 Internet-based information systems, the second covering the large-scale in- gration of heterogeneous computing systems and data resources with the aim of providing a global computing space.

Eachofthesefourconferencesencouragesresearcherstotreattheirrespective topics within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more "archival" nature of the main conferences with research results in a number of selected and more "avant-garde" areas related to the general topic of Web-based distributed c- puting. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and ar- ?cial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that ten of our earlier s- cessful workshops (ADI, CAMS, EI2N, SWWS, ORM, OnToContent, MONET, SEMELS, COMBEK, IWSSA) re-appeared in 2008 with a second, third or even ?fth edition, sometimes by alliance with other newly emerging workshops, and that no fewer than three brand-new independent workshops could be selected from proposals and hosted: ISDE, ODIS and Beyond SAWSDL. Workshop - diences productively mingled with each other and with those of the main c- ferences, and there was considerable overlap in authors.

RFID Jun 24 2022 This book provides an introduction to RFID technology. It describes and addresses the following: How RFID works, how it is and can be used in current and future applications. The History of RFID technology, the current state of practice and where RFID is expected to be taken in the future. The role of middleware software to route data between the RFID network and the information

technology systems within an organization. Commercial and government use of RFID technology with an emphasis on a wide range of applications including retail and consumer packaging, transportation and distribution of products, industrial and manufacturing operations, security and access control. Industry standards and the regulatory compliance environment and finally, the privacy issues faced by the public and industry regarding the deployment of RFID technology.

The Internet of Things Sep 03 2020 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.

Supply Chain Management Nov 25 2019 The purpose of supply chain management is to make production system manage production process, improve customer satisfaction and reduce total work cost. With indubitable significance, supply chain management attracts extensive attention from businesses and academic scholars. Many important research findings and results had been achieved. Research work of supply chain management involves all activities and processes including planning, coordination, operation, control and optimization of the whole supply chain system. This book presents a collection of recent contributions of new methods and innovative ideas from the worldwide researchers. It is aimed at providing a helpful reference of new ideas, original results and practical experiences regarding this highly up-to-date field for researchers, scientists, engineers and students interested in supply chain management.

Design and Development of Radio Frequency Identification (RFID) and RFID-enabled Sensors on Flexible Low Cost Substrates Nov 29 2022 This book presents a step-by-step discussion of the design and development of radio frequency identification (RFID) and RFID-enabled sensors on flexible low cost substrates for UHF frequency bands. Various examples of fully function building blocks (design and fabrication of antennas, integration with ICs and microcontrollers, power sources, as well as inkjet-printing techniques) demonstrate the revolutionary effect of this approach in low cost RFID and RFID-enabled sensors fields. This approach could be easily extended to other microwave and wireless applications as well. The first chapter describes the basic functionality and the physical and IT-related principles underlying RFID and sensors technology. Chapter two explains in detail inkjet-printing technology providing the characterization of the conductive ink, which consists of nano-silver-particles, while highlighting the importance of this technology as a fast and simple fabrication technique especially on flexible organic substrates such as Liquid Crystal Polymer (LCP) or paper-based substrates. Chapter three demonstrates several compact inkjet-printed UHF RFID antennas using antenna matching techniques to match IC's complex impedance as prototypes to provide the proof of concept of this technology. Chapter four

discusses the benefits of using conformal magnetic material as a substrate for miniaturized high-frequency circuit applications. In addition, in Chapter five, the authors also touch up the state-of-the-art area of fully-integrated wireless sensor modules on organic substrates and show the first ever 2D sensor integration with an RFID tag module on paper, as well as the possibility of 3D multilayer paper-based RF/microwave structures. Table of Contents: Radio Frequency Identification Introduction / Flexible Organic Low Cost Substrates / Benchmarking RFID Prototypes on Organic Substrates / Conformal Magnetic Composite RFID Tags / Inkjet-Printed RFID-Enabled Sensors

Design and Development of RFID and RFID-Enabled Sensors on Flexible Low Cost Substrates Dec 31 2022 This book presents a step-by-step discussion of the design and development of radio frequency identification (RFID) and RFID-enabled sensors on flexible low cost substrates for UHF frequency bands. Various examples of fully function building blocks (design and fabrication of antennas, integration with ICs and microcontrollers, power sources, as well as inkjet-printing techniques) demonstrate the revolutionary effect of this approach in low cost RFID and RFID-enabled sensors fields. This approach could be easily extended to other microwave and wireless applications as well. The first chapter describes the basic functionality and the physical and IT-related principles underlying RFID and sensors technology. Chapter two explains in detail inkjet-printing technology providing the characterization of the conductive ink, which consists of nano-silver-particles, while highlighting the importance of this technology as a fast and simple fabrication technique especially on flexible organic substrates such as Liquid Crystal Polymer (LCP) or paper-based substrates. Chapter three demonstrates several compact inkjet-printed UHF RFID antennas using antenna matching techniques to match IC's complex impedance as prototypes to provide the proof of concept of this technology. Chapter four discusses the benefits of using conformal magnetic material as a substrate for miniaturized high-frequency circuit applications. In addition, in Chapter five, the authors also touch up the state-of-the-art area of fully-integrated wireless sensor modules on organic substrates and show the first ever 2D sensor integration with an RFID tag module on paper, as well as the possibility of 3D multilayer paper-based RF/microwave structures. Table of Contents: Radio Frequency Identification Introduction / Flexible Organic Low Cost Substrates / Benchmarking RFID Prototypes on Organic Substrates / Conformal Magnetic Composite RFID Tags / Inkjet-Printed RFID-Enabled Sensors

Optimization of Manufacturing Systems Using the Internet of Things Aug 03 2020 Optimization of Manufacturing Systems Using the Internet of Things extends the IoT (Internet of Things) into the manufacturing field to develop an IoMT (Internet of Manufacturing Things) architecture with real-time traceability, visibility, and interoperability in production planning, execution, and control. This book is essential reading for anyone interested in the optimization and control of an intelligent manufacturing system. As modern manufacturing shop-floors can create bottlenecks in the capturing and collection of real-time field information, and

because paper-based manual systems are time-consuming and prone to errors, this book helps readers understand how to alleviate these issues, assisting them in their decision-making on shop-floors.. Includes case studies in implementing IoTs for data acquisition, monitoring, and assembly in manufacturing. Helps manufacturers to tackle the growing complexities and uncertainties of manufacturing systems in globalized business environments Acts as an introduction to using IoT for readers across industrial and manufacturing engineering

Designing and Deploying RFID Applications May 24 2022 Radio Frequency Identification (RFID), a method of remotely storing and receiving data using devices called RFID tags, brings many real business benefits to today world's organizations. Over the years, RFID research has resulted in many concrete achievements and also contributed to the creation of communities that bring scientists and engineers together with users. This book includes valuable research studies of the experienced scientists in the field of RFID, including most recent developments. 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 engineers, researchers, industry personnel, and all possible candidates to produce new and valuable results in RFID domain.

Logistics and the Saudi Vision 2030: The Top 10 Logistics Innovations to Facilitate the Vision Oct 05 2020 This book represents the profound vision exhibited by Crown Prince Mohammed who has designed a strategy to lead Saudi Arabia into a future of economic diversity. The book describes the way in which the logistics and supply chain form the nucleus of virtually all economic activity within the framework of the Vision 2030 ideals. Consequently, this book approaches these elements from the perspective of identifying the Top 10 logistics trends that are currently affecting the most change and innovation in industry on a global basis. These Top 10 logistics trends can only be ignored at one’s peril. This is because failure to integrate these trends into an economic development plan almost certainly means rapid irrelevance for a local, regional or national diversification effort.

Border Security Jul 02 2020 In July 2008, the Dept. of State (State) began issuing passport cards as a lower-cost alternative to passports for U.S. citizens to meet Western Hemisphere Travel requirements. In Oct. 2008, State began issuing the second generation border crossing card (BCC) based on the architecture of the passport card. This report examined the effectiveness of the physical and electronic security features of the passport card and the BCC. The report addresses: (1) How effectively State¿s development process ¿ incl. testing and evaluation ¿ for the passport card and second generation BCC mitigates the risk of fraudulent use? (2) How are U.S. Customs and Border Protection officers using the cards¿ security features to prevent fraudulent use at land ports of entry? Illus.

Distributed Applications and Interoperable Systems Feb 27 2020 The scope of

LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application field. --Book Jacket.

Innovation Manufacturing and Engineering Management Apr 10 2021 Volume is indexed by Thomson Reuters CPCI-S (WoS). The main themes and trends covered by this volume are Manufacturing Technology and Applications and Innovation Engineering Management. Both inward-looking research (core areas of Materials and Manufacturing Technology) and outward-looking research (multi-disciplinary, inter-disciplinary and applications) are reviewed. The work will provide invaluable guidance to those interested in these subjects.

Discovering Computers ©2018: Digital Technology, Data, and Devices Oct 17 2021 Learn to maximize the use of mobile devices, make the most of online tools for collaboration and communication, and fully utilize the web and cloud with the latest edition of DISCOVERING COMPUTERS 2018. Clearly see how technology skills can assist in both gaining employment and advancing a career. This edition highlights web development, how to create a strong web presence, and take full advantage of the latest Windows 10. Content addresses today’s most timely issues with coverage of contemporary technology developments and interesting in-text discussions. The authors provide helpful suggestions within a proven learning structure and offer meaning practice to reinforce skills. Self-assessments open each module and equip readers to focus study efforts and master more skills in less time. DISCOVERING COMPUTERS presents the key content needed for success using an approach that ensures understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Discovering Computers ©2016 Mar 10 2021 The popular DISCOVERING COMPUTERS is now revised, based on customer feedback, to reflect the evolving needs of today's Introductory Technology students. This exciting new edition maintains proven hallmarks that ensure students know what they need to be successful digital citizens in college and beyond. This edition offers the latest coverage of today's digital world with an emphasis on enterprise computing, ethics, Internet search skills, mobile computing, various operating systems, browsers and security. Critical thinking and problem-solving exercises throughout the text reinforce key skills, while end-of-chapter activities provide hands-on practice. DISCOVERING COMPUTERS provides the content your students need, presented in a way that ensures their success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Financial Cryptography and Data Security Jun 12 2021 There are few more important areas of current research than this, and here, Springer has published a double helping of the latest work in the field. That’s because the book contains the thoroughly refereed proceedings of the 11th International Conference on Financial Cryptography and Data Security, and the co-located 1st International Workshop on

Usable Security, both held in Trinidad/Tobago in February 2007. Topics covered include payment systems and authentication.

Design and Construction of an RFID-enabled Infrastructure Oct 29 2022 Internet 2.0 (previously called the Internet of Things) presents a tantalizing vision of bridging the cyber and physical worlds to forge a seamless planet-wide infrastructure in which cyber resources and physical objects can interact without human intervention. The technology needed to build the infrastructure already exists. However, more than a decade after the vision of Internet 2.0 was articulated, it remains largely unrealized except in isolated settings. Following a background discussion, Design and Construction of an RFID-enabled Infrastructure: the Next Avatar of the Internet addresses three questions: what are the barriers to the emergence of Internet 2.0 as a global infrastructure? What are the features that Internet 2.0 architecture must have if it is to become a successful global infrastructure?How can one build a prototype of Internet 2.0? The quest for answers to the above questions threads the narrative through the birthing process and maturation of two successful global infrastructures—the Internet and the web. Based on a review of the design philosophies underlying the Internet and the Web, their histories and the strategic stewardship that midwifed their births, the book presents the architectural guidelines for the Internet 2.0 infrastructure as well as a blueprint for the construction of its prototype. The discussion in the book is consolidated into a list of technical and strategic guidelines intended to facilitate the incubation of Internet 2.0.

Rfid Handbook Mar 22 2022 Radio Frequency Identification (RFID) is a technology which is at the centre of the revolution around Supply Chain and Retail industry. The book RFID Handbook: Technology, Applications, Security and Privacy gives a detailed breakdown of the entire RFID Architecture and components. We look at the parts which make an entire RFID implementation: RFID Tags, RFID Reader, RFID Antenna and related Information Management System. The book introduces the core RFID technology, how it works, the architecture stack which powers it and does a 360 degree overview on the numerous applications of RFID. There is also a detailed case study on RFID implementation at Walmart, which was one of the pioneers of RFID retail applications.

Networked RFID Apr 22 2022 This book introduces the technologies and techniques of large-scale RFID-enabled mobile computing systems. The discussion is set in the context of specific system case studies where RFID has been the core enabling technology in retail, metropolitan transportation, logistics and e-passport applications. RFID technology fundamentals are covered including operating principles, core system components and performance trade-offs involved in the selection of specific RFID platforms.

Crisis Management: Concepts, Methodologies, Tools, and Applications Jul 14 2021 "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.

Radio-Frequency Heating in Food Processing May 31 2020 Radio-Frequency Heating in Food Processing: Principles and Applications covers the fundamentals of radio-frequency (RF) heating and the use of RF-heating technologies in modern food processing, preservation, and related industries. Focusing on industrial and lab-scale applications where RF heating has been employed successfully or reported to have

Hacking Multifactor Authentication Dec 27 2019 Protect your organization from scandalously easy-to-hack MFA security “solutions” Multi-Factor Authentication (MFA) is spreading like wildfire across digital environments. However, hundreds of millions of dollars have been stolen from MFA-protected online accounts. How? Most people who use multifactor authentication (MFA) have been told that it is far less hackable than other types of authentication, or even that it is unhackable. You might be shocked to learn that all MFA solutions are actually easy to hack. That’s right: there is no perfectly safe MFA solution. In fact, most can be hacked at least five different ways. Hacking Multifactor Authentication will show you how MFA works behind the scenes and how poorly linked multi-step authentication steps allows MFA to be hacked and compromised. This book covers over two dozen ways that various MFA solutions can be hacked, including the methods (and defenses) common to all MFA solutions. You’ll learn about the various types of MFA solutions, their strengthens and weaknesses, and how to pick the best, most defensible MFA solution for your (or your customers') needs. Finally, this book reveals a simple method for quickly evaluating your existing MFA solutions. If using or developing a secure MFA solution is important to you, you need this book. Learn how different types of multifactor authentication work behind the scenes See how easy it is to hack MFA security solutions—no matter how secure they seem Identify the strengths and weaknesses in your (or your customers’) existing MFA security and how to mitigate Author Roger Grimes is an internationally known security expert whose work on hacking MFA has generated significant buzz in the security world. Read this book to learn what decisions and preparations your organization needs to take to prevent losses from MFA hacking.

Ethical Hacking and Countermeasures: Linux, Macintosh and Mobile Systems May 12 2021 The EC-Council | Press Ethical Hacking and Countermeasures Series is comprised of five books covering a broad base of topics in offensive network security, ethical hacking, and network defense and countermeasures. The content of this series is designed to immerse the reader into an interactive environment where they will be shown how to scan, test, hack and secure information systems. With the full series of books, the reader will gain in-depth knowledge and practical experience with essential security systems, and become prepared to succeed on the Certified Ethical Hacker, or C|EH, certification from EC-Council. This certification covers a plethora of offensive security topics ranging from how perimeter defenses work, to scanning and attacking simulated networks. A wide variety of tools, viruses, and malware is presented in this and the other four books,

providing a complete understanding of the tactics and tools used by hackers. By gaining a thorough understanding of how hackers operate, an Ethical Hacker will be able to set up strong countermeasures and defensive systems to protect an organization's critical infrastructure and information. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications Aug 22 2019 "This publication covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life"--Provided by publisher.

Information Systems for the Fashion and Apparel Industry Feb 06 2021 Information Systems for the Fashion and Apparel Industry brings together trends and developments in fashion information systems, industrial case-studies, and insights from an international team of authors. The fashion and apparel industry is fast-growing and highly influential. Computerized information systems are essential to support fashion business operations and recent developments in social media, mobile commerce models, radio frequency identification (RFID) technologies, and ERP systems are all driving innovative business measures in the industry. After an introductory chapter outlining key decision points and information requirements in fast fashion supply chains, Part One focuses on the principles of fashion information systems, with chapters covering how decision making in the apparel supply chains can be improved through the use of fuzzy logic, RFID technologies, evolutionary optimization techniques, and artificial neural networks. Part Two then reviews the range of applications for information systems in the fashion and apparel industry to improve customer choice, aid design, implement intelligent forecasting and procurement systems, and manage inventory and returns. Provides systematic and comprehensive coverage of information systems for the fashion and apparel industry Combines recent developments and industrial best-practices in apparel supply chain management in order to meet the needs of the fashion and apparel industry professionals and academics Features input from a team of highly knowledgeable authors with a range of professional and academic experience, overseen by an editor who is a leading expert in the field Reviews the range of applications for information systems in the fashion and apparel industry to improve customer choice, aid design, implement intelligent forecasting and procurement systems, and manage inventory and returns

R.F.I.D. Man's Greatest Invention or Mark of the Beast Sep 15 2021 ItÕs being heralded as a silent revolution, a state of the art global tracking device, and as significant of an invention as the Internet or even the computer itself. What is this device? ItÕs none other than RFID. But with all the hoopla aside, the question we need to be asking ourselves is this. ÒIs RFID manÕs greatest invention or Mark of the Beast?Ó Even though this inquiry is obviously important and seriously consequential, the irony is that hardly anyone, even Christians, have any idea what it is in the first place, let alone its Biblical ramifications. Therefore, this book, RFID

ManÕs Greatest Invention or Mark of the Beast takes you on an exciting technological journey to equip you with the highly detailed facts concerning this last days planetary tracking device. Here you will have such startling insights revealed to you as: The Definition and History of RFID, The Tracking Abilities of RFID, The Data Mining of RFID, The Types & Sizes of RFID, The Dangers of RFID in the Retail Industry and Food Supply.

Proceedings of the 6th CIRP-Sponsored International Conference on Digital Enterprise Technology Nov 17 2021 This Proceedings volume contains articles presented at the CIRP-Sponsored Inter- tional Conference on Digital Enterprise Technology (DET2009) that takes place December 14–16, 2009 in Hong Kong. This is the 6th DET conference in the series and the first to be held in Asia. Professor Paul Maropoulos initiated, hosted and chaired the 1st International DET Conference held in 2002 at the University of D- ham. Since this inaugural first DET conference, DET conference series has been s- cessfully held in 2004 at Seattle, Washington USA, in 2006 at Setubal Portugal, in 2007 at Bath England, and in 2008 at Nantes France. The DET2009 conference continues to bring together International expertise from the academic and industrial fields, pushing forward the boundaries of research kno- edge and best practice in digital enterprise technology for design and manufacturing, and logistics and supply chain management. Over 120 papers from over 10 countries have been accepted for presentation at DET2009 and inclusion in this Proceedings volume after stringent refereeing process. On behalf of the organizing and program committees, the Editors are grateful to the many people who have made DET2009 possible: to the authors and presenters, es- cially the keynote speakers, to those who have diligently reviewed submissions, to members of International Scientific Committee, Organizing Committee and Advisory Committes, and to colleagues for their hard work in sorting out all the arrangements. We would also like to extend our gratitude to DET2009 sponsors, co-organizers, and supporting organizations.

RFID Technology Integration for Business Performance Improvement Jan 20 2022 The development of radio-frequency electromagnetic fields for wireless data transmission has presented several new opportunities for sharing, tracking, and reading digital information in various industries. RFID Technology Integration for Business Performance Improvement presents emerging research surrounding the use and value of Radio Frequency Identification (RFID) technology for cost reduction, supply chain improvement, inventory management, and partner relationship management. This publication is ideal for use by business managers, researchers, academics, and advanced-level students seeking research on the management strategies, operational techniques, opportunities, and challenges of implementing and using this new technology in a business setting.

RFID in Libraries Aug 15 2021 "Expert guides to library systems and services."

Chipless RFID Sensors Nov 05 2020 A systematic treatment of the design and fabrication of chipless RFID sensors This book presents various sensing techniques incorporated into chipless RFID systems. The book is divided into five

main sections: Introduction to Chipless RFID Sensors; RFID Sensor Design; Smart Materials; Fabrication, Integration and Testing; and Applications of Chipless RFID Sensors. After a comprehensive review of conventional RFID sensors, the book presents various passive microwave circuit designs to achieve compact, high data density and highly sensitive tag sensors for a number of real-world ubiquitous sensing applications. The book reviews the application of smart materials for microwave sensing and provides an overview of various micro- and nano-fabrication techniques with the potential to be used in the development of chipless RFID sensors. The authors also explore a chipless RFID reader design capable of reading data ID and sensory information from the chipless RFID sensors presented in the book. The unique features of the book are: Evaluating new chipless RFID sensor design that allow non-invasive PD detection and localization, real-time environment monitoring, and temperature threshold detection and humidity Providing a classification of smart materials based on sensing physical parameters (i.e. humidity, temperature, pH, gas, strain, light, etc.) Discussing innovative micro- and nano-fabrication processes including printing suitable for chipless RFID sensors Presenting a detailed case study on various real-world applications including retail, pharmaceutical, logistics, power, and construction industries Chipless RFID Sensors is primarily written for researchers in the field of RF sensors but can serve as supplementary reading for graduate students and professors in electrical engineering and wireless communications.

Business Information Systems Jan 08 2021 This book constitutes the refereed proceedings of the 10th International Conference on Business Information Systems, BIS 2007, held in Poznan, Poland in April 2007. Among the issues addressed in the 49 revised full papers presented together with one keynote lecture are business process management, Web services, ontologies, information retrieval, system design, agents and mobile applications, decision support, social issues, specific MIS issues.

Spychips Jan 26 2020 Big Brother gets up close and personal. Do you know about RFID (Radio Frquency IDentification)? Well, you should, because in just a few short years, this explosive new technology could tell marketers, criminals, and government snoops everything about you. Welcome to the world of spychips, where tiny computer chips smaller than a grain of sand will trace everyday objects?and even people?keeping tabs on everything you own and everywhere you go. In this startling, eye-opening book, you'll learn how powerful corporations are planning a future where: Strangers will be able to scan the contents of your purse or briefcase from across a room. Stores will change prices as you approach-squeezing extra profits out of bargain shoppers and the poor. The contents of your refrigerator and medicine cabinet will be remotely monitored. Floors, doorways, ceiling tiles, and even picture frames will spy on you?leaving virtually no place to hide. microchip implants will track your every move?and even broadcast your conversations remotely or electroshock you if you step out of line. This is no conspiracy theory. Hundreds of millions of dollars have already been invested in

what global corporations and the government are calling "the hottest new technology since the bar code." Unless we stop it now, RFID could strip away our last shreds of privacy and usher in a nightmare world of total surveillance?to keep us all on Big Brother's very short leash. What critics are saying about Spychips, the book: Spychips "make[s] a stunningly powerful argument against plans for RFID being mapped out by government agencies, retail and manufacturing companies." ?Evan Schuman, CIO Insight "The privacy movement needs a book. I nominate Spychips." ?Marc Rotenberg, EPIC "Brilliantly written; so scary and depressing I want to put it down, so full of fascinating vignettes and facts that I can't put it down." ?Author Claire Wolfe Spychips "makes a very persuasive case that some of America's biggest companies want to embed tracking technology into virtually everything we own, and then study our usage patterns 24 hours a day. It's a truly creepy book and well worth reading." ?Hiawatha Bray, Boston Globe "You REALLY want to read this book." ?Laissez Faire

RFID-based Business Models Feb 18 2022

RFID-enabled Sensor Design and Applications Jul 26 2022 RFID (radio-frequency identification) is an emerging communication system technology and one of the most rapidly growing segments of today's automatic identification data collection industry. This cutting-edge resource offers you a solid understanding of the basic technical principles and applications of RFID-enabled sensor systems. The book provides you with a detailed description of RFID and it's operation, along with a fundamental overview of sensors and wireless sensor networks. Moreover, this practical reference gives you step-by-step guidance on how to design RFID-enabled sensors that form a wireless sensor network. You also find detailed coverage of state-of the-art RFID/sensor technology and worldwide applications.

Computers Helping People with Special Needs Oct 24 2019 The two volume set LNCS 9758 and 9759, constitutes the refereed proceedings of the 15th International Conference on Computers Helping People with Special Needs, ICCHP 2015, held in Linz, Austria, in July 2016. The 115 revised full papers and 48 short papers presented were carefully reviewed and selected from 239 submissions. The papers included in the first volume are organized in the following topical sections: Art Karshmer lectures in access to mathematics, science and engineering; technology for inclusion and participation; mobile apps and platforms; accessibility of web and graphics; ambient assisted living (AAL) for aging and disability; the impact of PDF/UA on accessible PDF; standard tools and procedures in accessible e-book production; accessible e-learning – e-learning for accessibility/AT; inclusive settings, pedagogies and approaches in ICT-based learning for disabled and non-disabled people; digital games accessibility; user experience and emotions for accessibility (UEE4A).