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VALENTINE JOHNSON

Current and Future Trends Case Study: Installing RFID Systems in SupermarketsRadio frequency identification technology (RFID) is considered as the reference technology for wireless identification and item traceability. Supermarkets are one of those scenarios where the RFID potential can be harnessed. In theory, RFID in supermarkets shows several advantages compared with traditional barcode systems, offering real-time inventory, stock control, cash queues, among others. In practice, its massive and global implementation is still being delayed due to the high quantity of factors that degrade the RFID system performance in these scenarios, causing uncontrolled items and identification losses and, at the end, economical losses. Some works in the scientific literature studied a single or a set of problems related to RFID performance, mostly focused on a specific communication layer: antennas and hardware design, interferences at physical layer, medium access control (MAC) protocols, security issues, or middleware challenges. However, there are no works describing in depth the set of factors affecting

RFID performance in a specific scenario and contemplating the entire communication layer stack. The first challenge of this chapter is to provide a complete analysis of those physical and environmental factors, hardware and software limitations, and standard and regulation restrictions that have a direct impact on the RFID system performance in supermarkets. This analysis is addressed by communication layers, paying attention to the point of view of providers, supermarket companies, and final customers. Some of the most feasible and influential research works that address individual problems are also enumerated. Finally, taking the results extracted from this study, this chapter provides a Guide of Good Practices (GGPs), giving a global vision for addressing a successful RFID implementation project, useful for researchers, developers, and installers.VIII International Scientific Siberian Transport ForumTransSiberia 2019, Volume 2

This report contains 23 studies which examine the initial allocations of transferable fishing quotas by a variety of fisheries management regimes. The case studies include accounts from the UK, the Netherlands, Iceland, Canada, United States, South Africa, Australia and New Zealand.

Cases on Quality Initiatives for

Organizational Longevity Springer Science & Business Media
Cyber-Physical Systems: Foundations, Principles and Applications explores the core system science perspective needed to design and build complex cyber-physical systems. Using Systems Science's underlying theories, such as probability theory, decision theory, game theory, organizational sociology, behavioral economics, and cognitive psychology, the book addresses foundational issues central across CPS applications, including System Design -- How to design CPS to be safe, secure, and resilient in rapidly evolving environments, System Verification -- How to develop effective metrics and methods to verify and certify large and complex CPS, Real-time Control and Adaptation -- How to achieve real-time dynamic control and behavior adaptation in a diverse environments, such as clouds and in network-challenged spaces, Manufacturing -- How to harness communication, computation, and control for developing new products, reducing product concepts to realizable designs, and producing integrated software-hardware systems at a pace far exceeding today's timeline. The book is part of the Intelligent Data-Centric Systems: Sensor-Collected Intelligence series edited by Fatos Xhafa,

Technical University of Catalonia. Indexing: The books of this series are submitted to EI-Compendex and SCOPUS Includes in-depth coverage of the latest models and theories that unify perspectives, expressing the interacting dynamics of the computational and physical components of a system in a dynamic environment Focuses on new design, analysis, and verification tools that embody the scientific principles of CPS and incorporate measurement, dynamics, and control Covers applications in numerous sectors, including agriculture, energy, transportation, building design and automation, healthcare, and manufacturing

Handbook of Smart Antennas for RFID Systems Morgan Kaufmann

The intersection of supply chain management and e-business information systems is a significant topic for the modern business world as understanding which technologies will most effectively enable innovative practices is a key management competency. Innovations in Supply Chain Management for Information Systems: Novel Approaches presents exemplary research on the interface between these two fields, useful to academicians and practitioners keen on streamlining concurrently both information and materials flows across the supply chains. This

advanced publication provides recent examinations as well as future directions of development.

An Analysis of the Radio Frequency Identification (RFID) Technology Implementation Within an Independent Public Library System Elsevier

Are you an engineer or manager working on the development and implementation of RFID technology? If so, this book is for you. Covering both passive and active RFID systems, the challenges to RFID implementation are addressed using specific industry research examples and common integration issues. Key topics include RF tag performance optimization, evaluation methodologies for RFID and Real-Time-Location Systems (RTLS) and sensors, EPC network simulation, RFID in the retail supply chain, and applications in product lifecycle management, anti-counterfeiting and cold chain management. The book brings together insights from the world's leading research laboratories in the field, including the Auto-ID Labs at MIT, successor to the Auto-ID Center which developed the Electronic Product Code scheme which is set to become the global standard for product identification.MIT Auto-ID Labs's suite of Open Source code and tools for RFID implementation is available at www.cambridge.org/97

80521880930.

Radio Frequency Identification (RFID)
John Wiley & Sons
Over the past decade, increasing competition has created immense opportunities for businesses globally. As such, it important to research new methods and systems for creating optimal business cultures. Cases on Quality Initiatives for Organizational Longevity is a scholarly publication that examines cases on practices in organizations and how they have facilitated transformation over the years. Featuring coverage on a broad range of topics such as customer loyalty, benchmarking, and employee training, this book is geared toward business owners, managers, entrepreneurs, professionals, researchers, and students seeking current and relevant research on contemporary cases in the field of business quality management.
IGI Global
This volume provides an overview and an understanding of REST (Representational State Transfer). Discussing the constraints of REST the book focuses on REST as a type of web architectural style. The focus is on applying REST beyond Web applications (i.e., in enterprise environments), and in reusing established and well-understood design patterns when doing so. The reader will be able to understand how

RESTful systems can be designed and deployed, and what the results are in terms of benefits and challenges encountered in the process. Since REST is relatively new as an approach for designing Web Services, the more advanced part of the book collects a number of challenges to some of the assumptions and constraints of REST, and looks at current research work on how REST can be extended and applied to scenarios that often are considered not to be a good match for REST. This work will help readers to reach a deeper understanding of REST on a practical as well as on an advanced level.

Computer and Information Security Handbook IGI Global

Rapidly advancing technology creates an overwhelming demand to remain informed of current research and discoveries. Cases on Emerging Information Technology Research and Applications strategically combines the latest studies encompassing the most current advancements in the IT arenas. This compilation of cases highlights relevant information for professionals, researchers, and students wishing to remain current with the ever-changing IT field.

Research Trends and Challenges Woodhead Publishing

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. *Advanced RFID Systems, Security, and Applications* IGI Global The intent of this book is to provide a sufficient discussion of RFID to enable readers with no prior knowledge to develop a basic understanding of the technology. RFID for the Supply Chain and Operations Professional discusses current applications and specific examples of RFID usage taken from a variety of industries. The appropriate coupling of RFID with other technologies such as global positioning systems (GPS), enterprise resource planning (ERP), IIoT technologies and robotics is discussed as well as an overview of the RFID implementation process. This book will help readers develop an understanding of the capability of the technology to increase an organization’s customer responsiveness. In the third edition, the discussion and examples have been

updated to reflect the rapid advancement in RFID technology. A new case study and new examples have been added along with updated discussions and projections about RFID technology.

Health Information Systems: Concepts, Methodologies, Tools, and Applications

Newnes

Radio frequency identification technology (RFID) is considered as the reference technology for wireless identification and item traceability. Supermarkets are one of those scenarios where the RFID potential can be harnessed. In theory, RFID in supermarkets shows several advantages compared with traditional barcode systems, offering real-time inventory, stock control, cash queues, among others. In practice, its massive and global implementation is still being delayed due to the high quantity of factors that degrade the RFID system performance in these scenarios, causing uncontrolled items and identification losses and, at the end, economical losses. Some works in the scientific literature studied a single or a set of problems related to RFID performance, mostly focused on a specific communication layer: antennas and hardware design, interferences at physical layer, medium access control (MAC) protocols, security issues, or middleware challenges. However,

there are no works describing in depth the set of factors affecting RFID performance in a specific scenario and contemplating the entire communication layer stack. The first challenge of this chapter is to provide a complete analysis of those physical and environmental factors, hardware and software limitations, and standard and regulation restrictions that have a direct impact on the RFID system performance in supermarkets. This analysis is addressed by communication layers, paying attention to the point of view of providers, supermarket companies, and final customers. Some of the most feasible and influential research works that address individual problems are also enumerated. Finally, taking the results extracted from this study, this chapter provides a Guide of Good Practices (GGPs), giving a global vision for addressing a successful RFID implementation project, useful for researchers, developers, and installers.

Retailing in the 21st Century Artech House The Handbook of Smart Antennas for RFID Systems is a single comprehensive reference on the smart antenna technologies applied to RFID. This book will provide a timely reference book for researchers and students in the areas of both smart antennas and RFID technologies. It is the first book to combine two of the

most important wireless technologies together in one book. The handbook will feature chapters by leading experts in both academia and industry offering an in-depth description of terminologies and concepts related to smart antennas in various RFID systems applications. Some topics are: adaptive beamforming for RFID smart antennas, multiuser interference suppression in RFID tag reading, phased array antennas for RFID applications, smart antennas in wireless systems and market analysis and case studies of RFID smart antennas. This handbook will cover the latest achievements in the designs and applications for smart antennas for RFID as well as the basic concepts, terms, protocols, systems architectures and case studies in smart antennas for RFID readers and tags.

TransSiberia 2019, Volume 2 Springer Science & Business Media

"This reference set provides a complete understanding of the development of applications and concepts in clinical, patient, and hospital information systems"--Provided by publisher.

Cases on Emerging Information Technology Research and Applications Elsevier

"This book focuses on compilation of cases which focus on quality practices in organizations and how it has facilitated in

their transformation over the years. The cases highlight the organizational efforts towards implementation of quality practices and discuss the challenges faced to instill a sense of quality in all organizational practices across the hierarchy"--

RFID for the Supply Chain and Operations Professional Business Expert Press

Business-to-consumer (B2C) and consumer-to-consumer (C2C) e-commerce transactions, including social commerce, are rapidly expanding, although e-commerce is still small when compared to traditional business transactions. As the familiarity of making purchases using smart devices continues to expand, many global and regional investors hope to target the ASEAN region to tap into the rising digital market in this region. The Handbook of Research on Innovation and Development of E-Commerce and E-Business in ASEAN is an essential reference source that discusses economics, marketing strategies, and mobile payment systems, as well as digital marketplaces, communication technologies, and social technologies utilized for business purposes. Featuring research on topics such as business culture, mobile technology, and consumer satisfaction, this book is ideally designed for policymakers, financial managers, business

professionals, academicians, students, and researchers.

Designing and Deploying RFID Applications Vital Wellspring Education Pte. Ltd.

In the era of information communication technology (ICT), radio frequency identification (RFID) has been going through tremendous development. RFID technology has the potential of replacing barcodes due to its large information carrying capacity, flexibility in operations, and applications. The deployment of RFID has been hindered by its cost. However, with the advent of low powered ICs, energy scavenging techniques, and low-cost chipless tags, RFID technology has achieved significant development. This book addresses the new reader architecture, presents fundamentals of chipless RFID systems, and covers protocols. It also presents proof-of-concept implementations with potential to replace trillions of barcodes per year. Overall, this resource aims to not only explain the technology, but to make the chipless RFID reader system a viable commercial product for mass deployment. It is certainly a very useful resource in the new field.

Chipless RFID Reader Architecture Now Publishers Inc

RFID and the Internet of Things shows how RFID has transformed

the supply chain over the last decade and examines the manufacturing, logistics and retail aspects of RFID. This monograph considers the related cost/benefit of RFID in these business environments. The authors describe a vision of an "Internet of Things", where each participating object has a digital shadow with related information stored in cyberspace. RFID and the Internet of Things introduces the reader to the relevant hardware and software as well as to standards and architectures. It then present several case studies and uses cases showing how RFID can be used in manufacturing and retail with a focus on intra-enterprise applications and local benefits. The authors move further down the supply chain, discussing RFID applications in logistics and the perspectives for an Internet of Things. This is followed by a discussion of cost/benefit analyses of RFID implementations. The volume discusses possible security and privacy risks of RFID and presents several architecture proposals for a less centralized Internet of Things. The authors conclude with a summary and outlook.

Handbook of Research on Innovations in Systems and Software Engineering IGI Global

Fashion Supply Chain Management Using

Radio Frequency Identification (RFID) Technologies looks at the application of RFID technologies in such areas as order allocation, garment manufacturing, product tracking, distribution and retail. As supply chains in the textiles and fashion industry become ever more complex and global, and as the shift to mass customization puts more pressure on a rapid and flexible response to customer needs, monitoring and improving supply chain efficiency in the industry becomes crucial. Radio frequency identification (RFID) technologies offer a unique opportunity to achieve these goals. This book reviews the role of RFID technologies in the textiles and fashion supply chain to improve distribution, process management and product tracking, garment manufacturing, and assembly line operations. It also explores how RFID technologies can improve order allocation in the supply chain, and how these technologies can also be used for intelligent apparel product cross-selling. Its chapters also discuss measuring the impact of RFID technologies in improving the efficiency of the textile supply chain, and modeling the effectiveness of RFID technologies in improving sales performance in fashion retail outlets. Fashion Supply Chain Management Using

Radio Frequency Identification (RFID) Technologies is a comprehensive resource for academic researchers, industry managers, and professionals within the fashion industry. Looks at the application of RFID technologies in order allocation, garment manufacturing, product tracking, distribution, and retail Reviews RFID technologies in the textiles and fashion supply chain for improving distribution, process management and product tracking, garment manufacturing, and assembly line operations Focuses on measuring the impact of RFID technologies on efficiency, and modeling the effectiveness of RFID technologies in improving retail outlet sales

Networked RFID

McGraw Hill Professional

Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside the technological advancements of computer applications to develop efficient and precise databases of information. The Handbook of Research on Innovations in Systems and Software Engineering combines relevant research from all facets of computer programming to provide a comprehensive look at the challenges and

changes in the field. With information spanning topics such as design models, cloud computing, and security, this handbook is an essential reference source for academicians, researchers, practitioners, and students interested in the development and design of improved and effective technologies.
Innovations in Supply Chain Management for Information Systems: Novel Approaches IGI Global
With crisp and insightful contributions from 47 of the world's leading experts in various facets of retailing, Retailing in the 21st Century offers in one book a compendium of state-of-the-art, cutting-edge knowledge to guide successful retailing in the new millennium. In our competitive world, retailing is an exciting, complex and critical sector of business in most developed as well as emerging economies. Today, the retailing industry is being buffeted by a number of forces simultaneously, for example the growth of online retailing and the advent of 'radio frequency identification' (RFID) technology. Making sense of it all is not easy but of vital importance to retailing practitioners, analysts and policymakers.
Technology and Application in Garment Manufacturing and Supply Chain CRC Press
As modern technologies continue to transform and impact our society,

Radio Frequency Identification has emerged as one of the top areas of study to do just that. Using its wireless data capturing technique and incredible capabilities such as automatic identification, tracking, handling large amounts of data, and flexibility in operation, RFID aims to revamp the new millennium. Advanced RFID Systems, Security, and Applications features a comprehensive collection of research provided by leading experts in both academia and industries. This leading reference source provides state-of-the-art development on RFID and its contents will be of the upmost use to students and researchers at all levels as well as technologists, planners, and policy makers. RFID technology is progressing into a new phase of development.