

Rfid Systems Research Trends And Challenges

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This book provides an insight into the hot field of Radio Frequency Identification (RFID) Systems In this book, the authors provide an insight into the field of RFID systems with an emphasis on networking aspects and research challenges related to passive Ultra High Frequency (UHF) RFID systems. The book reviews various algorithms, protocols and design solutions that have been developed within ...

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A Radio Frequency Identification (RFID) system consists of one or more tags (or transponders) that store data and transfer the data to one or more readers (or interrogators) over a wireless interface. In practical RFID systems the readers are networked to a wider enterprise computer system. The main function of an RFID system

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RFID Systems: Research Trends and Challenges by Bolic ...

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This book provides an insight into the 'hot' field of Radio Frequency Identification (RFID) Systems. In this book, the authors provide an insight into the field of RFID systems with an emphasis on networking aspects and research challenges related to passive Ultra High Frequency (UHF) RFID systems. The book reviews various algorithms, protocols and design solutions that have been developed within the area, including most recent advances. In addition, authors cover a wide range of recognized problems in RFID industry, striking a balance between theoretical and practical coverage. Limitations of the technology and state-of-the-art solutions are identified and new research opportunities are addressed. Finally, the book is authored by experts and respected researchers in the field and every chapter is peer reviewed. Key Features: Provides the most comprehensive analysis of networking aspects of RFID systems, including tag identification protocols and reader anti-collision algorithms. Covers in detail major research problems of passive UHF systems such as improving reading accuracy, reading range and throughput. Analyzes other "hot topics" including localization of passive RFID tags, energy harvesting, simulator and emulator design, security and privacy. Discusses design of tag antennas, tag and reader circuits for passive UHF RFID systems. Presents EPC Global architecture framework, middleware and protocols. Includes an accompanying website with PowerPoint slides and solutions to the problems. <http://www.site.uottawa.ca/~mbolic/RFIDBook/> This book will be an invaluable guide for researchers and graduate students in electrical engineering and computer science, and researchers and developers in telecommunication industry.

An expert system, also known as a knowledge based system, is a computer program that contains some of the subject-specific knowledge of one or more human experts. This class of program was first developed by researchers in artificial intelligence during the 1960s and 1970s and applied commercially throughout the 1980s. The most common form of expert systems is a program made up of a set of rules that analyse information usually supplied by the user of the system) about a specific class of problems, as well as providing mathematical analysis of the problem(s), and, depending upon their design, recommend a course of user action in order to implement corrections. It is a system that utilises what appear to be reasoning capabilities to reach conclusions. This book presents important research on in this dynamic field.

"This book highlights new research regarding wireless identification and sensing platform (WISP) tags, security, and applications, serving as a reference on WISP technology and presenting recent advances in this field"--Provided by publisher.

Combining cutting-edge technologies and techniques with existing approaches, this book equips you with the tools and knowledge needed to develop new energy-efficient and environmentally friendly RFID systems. As well as covering RFID basics, a wide range of new technologies is discussed, including biodegradable and recyclable material use, energy scavenging, passive and chipless architectures, RFID passive sensors, networked RFID and RFID sensors, organic electronic devices, textile electronics, and distributed and wide area electronics. Providing a clear description of how RFID technology can enable the evolution of the Internet of Things, the book guides you down the path to facing new challenges as we move towards ubiquitous sensing for smart environments and a networked society. This is an ideal guide for researchers in academia and industry, technical managers, and graduate students in RF and wireless communications.

With the increased adoption of RFID (Radio Frequency Identification) across multiple industries, new research opportunities have arisen among many academic and engineering communities who are currently interested in maximizing the practice potential of this technology and in minimizing all its potential risks. Aiming at providing an outstanding survey of recent advances in RFID technology, this book brings together interesting research results and innovative ideas from scholars and researchers worldwide. Current Trends and Challenges in RFID offers important insights into: RF/RFID Background, RFID Tag/Antennas, RFID Readers, RFID Protocols and Algorithms, RFID Applications and Solutions. Comprehensive enough, the present book is invaluable to engineers, scholars, graduate students, industrial and technology insiders, as well as engineering and technology aficionados.

Radio Frequency Identification (RFID) Technology and Application in Fashion and Textile Supply Chain highlights the technology of Radio Frequency Identification (RFID) and its applications in fashion and textile manufacturing and supply chain management. It discusses the brief history, technology, and

working of RFID including the types of RFID systems. It compares differences, advantages, and disadvantages of RFID and barcode technologies. It also covers application of RFID technology in textile and fashion manufacturing, supply chain, and retail, and RFID-based process control in textile and fashion manufacturing. It covers various applications of RFID starting from fibre manufacturing through yarn and fabric manufacturing; fabric chemical processing; garment manufacturing and quality control; and retail management. It offers case studies of RFID adoption by famous fashion brands detailing the competitive advantages and discusses various challenges faced and future directions of RFID technology.

This book constitutes the refereed proceedings of the Third International Conference on Computational Logistics, held in Shanghai, China, in September 2012. The 15 revised full papers presented were carefully reviewed and selected from various submissions. The papers are organized in topical sections on maritime shipping; logistics and supply chain management; planning and operations; and case studies.

This two volume set LNCS 10039 and 10040 constitutes the refereed post-conference proceedings of the Second International Conference on Cloud Computing and Security, ICCCS 2016, held in Nanjing, China, during July 29-31, 2016. The 97 papers of these volumes were carefully reviewed and selected from 272 submissions. The papers are organized in topical sections such as: Information Hiding, Cloud Computing, Cloud Security, IOT Applications, Multimedia Applications, Multimedia Security and Forensics.

Internet of Things: Challenges, Advances, and Applications provides a comprehensive introduction to IoT, related technologies, and common issues in the adoption of IoT on a large scale. It surveys recent technological advances and novel solutions for challenges in the IoT environment. Moreover, it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas, such as smart grids, healthcare, insurance, and the automotive industry. The chapters of this book are authored by several international researchers and industry experts. This book is composed of 18 self-contained chapters that can be read, based on interest. Features: Introduces IoT, including its history, common definitions, underlying technologies, and challenges Discusses technological advances in IoT and implementation considerations Proposes novel solutions for common implementation issues Explores critical application domains, including large-scale electric power distribution networks, smart water and gas grids, healthcare and e-Health applications, and the insurance and automotive industries The book is an excellent reference for researchers and post-graduate students working in the area of IoT, or related areas. It also targets IT professionals interested in gaining deeper knowledge of IoT, its challenges, and application areas.

This book explores various aspects of software creation and development as well as data and information processing. It covers relevant topics such as business analysis, business rules, requirements engineering, software development processes, software defect prediction, information management systems, and knowledge management solutions. Lastly, the book presents lessons learned in information and data management processes and procedures.

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