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Wireless Sensor Networks

Deployments and Design Frameworks

 Springer

Wireless Sensor Networks Deployments And Design Frameworks

June Wei, George Margetis



Wireless Sensor Networks Deployments And Design Frameworks:

Wireless Sensor Networks Elena Gaura, Lewis Girod, James Brusey, Michael Allen, Geoffrey Challen, 2010-09-14 The twentieth century ended with the vision of smart dust a network of wirelessly connected devices whose size would match that of a dust particle each one a self-contained package equipped with sensing computation communication and power Smart dust held the promise to bridge the physical and digital worlds in the most unobtrusive manner blending together realms that were previously considered well separated Applications involved scattering hundreds or even thousands of smart dust devices to monitor various environmental quantities in scenarios ranging from habitat monitoring to disaster management The devices were envisioned to self-organize to accomplish their task in the most efficient way As such smart dust would become a powerful tool assisting the daily activities of scientists and engineers in a wide range of disparate disciplines Wireless sensor networks WSNs as we know them today are the most noteworthy attempt at implementing the smart dust vision In the last decade this field has seen a fast growing investment from both academia and industry Significant financial resources and manpower have gone into making the smart dust vision a reality through WSNs Yet we still cannot claim complete success At present only specialist computer scientists or computer engineers have the necessary background to walk the road from conception to a fully deployed and running WSN system

Wireless Sensor Networks Elena Gaura, 2005*

Design Frameworks for Wireless Networks Santosh Kumar Das, Sourav Samanta, Nilanjan Dey, Rajesh Kumar, 2019-08-10 This book provides an overview of the current state of the art in wireless networks around the globe focusing on utilizing the latest artificial intelligence and soft computing techniques to provide design frameworks for wireless networks These techniques play a vital role in developing a more robust algorithm suitable for the dynamic and heterogeneous environment making the network self-managed self-operational and self-configurational and efficiently reducing uncertainties and imprecise information

The Art of Wireless Sensor Networks Habib M. Ammari, 2013-12-13 During the last one and a half decades wireless sensor networks have witnessed significant growth and tremendous development in both academia and industry The Art of Wireless Sensor Networks Volume 1 Fundamentals focuses on the fundamental concepts in the design analysis and implementation of wireless sensor networks It covers the various layers of the lifecycle of this type of network from the physical layer up to the application layer Its rationale is that the first volume covers contemporary design issues tools and protocols for radio-based two-dimensional terrestrial sensor networks All the book chapters in this volume include up-to-date research work spanning various classic facets of the physical properties and functional behavior of wireless sensor networks including physical layer medium access control data routing topology management mobility management localization task management data management data gathering security middleware sensor technology standards and operating systems This book will be an excellent source of information for both senior undergraduate and graduate students majoring in computer science computer engineering electrical engineering or any related discipline In addition computer

scientists researchers and practitioners in both academia and industry will find this book useful and interesting

Wireless Sensor Networks Siva Yellampalli, 2021-09-15 Wireless sensor networks WSNs consist of tiny sensors capable of sensing computing and communicating Due to advances in semiconductors networking and material science technologies it is now possible to deploy large scale WSNs The advancement in these technologies has not only decreased the deployment and maintenance costs of networks but has also increased the life of networks and made them more rugged As WSNs become more reliable with lower maintenance costs they are being deployed and used across various sectors for multiple applications This book discusses the applications challenges and design and deployment techniques of WSNs Wireless Sensor Networks and Applications Yingshu Li, My T. Thai, 2008-02-10 Wireless sensor networks are being employed in a variety of applications ranging from medical to military and from home to industry The principle aim of this book is to provide a reference tool for the increasing number of scientists who depend upon sensor networks in some way The book is organized into several sections each including chapters exploring a specific topic Wireless sensor networks are attracting great attention and there are many research topics yet to be studied In this book the topics covered include network design and modelling network management data management security and applications The articles presented in the book are expository but of a scholarly nature including the appropriate history background a review of the state of the art thinking relative to the topic as well as a discussion of unsolved problems that are of special interest The target readers of this book include the researchers in computer science computer engineering and applied mathematics as well as students in these subjects Specialists as well as general readers will find the articles stimulating and helpful Book Organization The book is organized into five sections Section I introduces the design and modelling of sensor networks Chapter 1 by Iyer Kulkarni Mhatre and Rosenberg presents a taxonomy of wireless sensor networks based on their application level objectives traffic characteristics and data delivery requirements Popa and Lewis in Chapter 2 describe some algorithms for systematic exploration of unknown environments using a mobile wireless sensor network Smart Wireless Sensor Networks Yen Kheng Tan, Hoang Duc Chinh, 2010-12-14 The recent development of communication and sensor technology results in the growth of a new attractive and challenging area wireless sensor networks WSNs A wireless sensor network which consists of a large number of sensor nodes is deployed in environmental fields to serve various applications Facilitated with the ability of wireless communication and intelligent computation these nodes become smart sensors which do not only perceive ambient physical parameters but also be able to process information cooperate with each other and self organize into the network These new features assist the sensor nodes as well as the network to operate more efficiently in terms of both data acquisition and energy consumption Special purposes of the applications require design and operation of WSNs different from conventional networks such as the internet The network design must take into account of the objectives of specific applications The nature of deployed environment must be considered The limited of sensor nodes resources such as memory

computational ability communication bandwidth and energy source are the challenges in network design A smart wireless sensor network must be able to deal with these constraints as well as to guarantee the connectivity coverage reliability and security of network s operation for a maximized lifetime This book discusses various aspects of designing such smart wireless sensor networks Main topics includes design methodologies network protocols and algorithms quality of service management coverage optimization time synchronization and security techniques for sensor networks *New Developments in Sensing Technology for Structural Health Monitoring* Subhas Chandra Mukhopadhyay,2011-07-14 The book has focussed on the different aspects of sensing technology i e high reliability adaptability recalibration information processing data fusion validation and integration of novel and high performance sensors specifically aims to use to inspect mechanical health of structure and similar applications This book is dedicated to Sensing systems for Structural Health Monitoring offers to variety of users namely Master and PhD degree students researchers practitioners especially Civil and Construction engineers The book will provide an opportunity of a dedicated and a deep approach in order to improve their knowledge in this specific field *Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management* Zaman, Noor,Ragab, Khaled,Abdullah, Azween Bin,2012-01-31 This book focuses on wireless sensor networks and their operation covering topics including routing energy efficiency and management **Distributed Sensor Systems** Habib F. Rashvand,Jose M. Alcaraz Calero,2012-04-23 This book focuses on the distinct but tightly inter related areas of development for distributed sensing systems In this book the authors discuss the technological developments lead by sensor technology addressing viable new applications to inspire a technological evolution Under the advanced and visionary approach of distributed intelligence the authors focus on three distinct but tightly inter related areas of developments for distributed sensing systems DSS firstly the sensor technology embracing the conversion of the phenomena of interest into desirable form of signal such as electric secondly the interaction process between sensing points which requires immense intelligence loosely called networking and finally the adoption of useful maturing systems through potential applications for right impacts for a better life and a brighter economy Furthermore the book contains a number of case studies and typical applications illustrating the technical details features and functions of the systems as well as demonstrating their benefits and limitations Key Features Discusses the technological developments lead by sensor technology Addresses viable new applications Contains a number of case studies and typical applications illustrating the technical details features and functions of the systems Demonstrates the benefits and limitations of distributed sensing Written by experts with vast experience in the field both in academia and industry This book will be an invaluable reference for postgraduates studying related courses communication engineering engineering management computer systems industrial process automation design environmental urban surveillance R D engineers system and application designers researchers industrial project managers and engineers and technical and strategic managers planning new products *Wireless Algorithms, Systems, and Applications* Yu

Cheng, Do Young Eun, Zhiguang Qin, Min Song, Xing Kai, 2011-08-23 This book constitutes the refereed proceedings of the 6th Annual International Conference on Wireless Algorithms Systems and Applications WASA 2011 held in Chengdu China in August 2011 The 26 revised full papers and 13 invited papers presented were carefully reviewed and selected from numerous submissions The papers address all current trends challenges and state of the art solutions related to various issues in wireless networks Topics of interests include but not limited to effective and efficient state of the art algorithm design and analysis reliable and secure system development and implementations experimental study and test bed validation and new application exploration in wireless networks **Wireless Sensor Networks** Shafiullah Khan, Al-Sakib Khan Pathan, Nabil Ali Alrajeh, 2016-04-21

Wireless sensor networks WSNs utilize fast cheap and effective applications to imitate the human intelligence capability of sensing on a wider distributed scale But acquiring data from the deployment area of a WSN is not always easy and multiple issues arise including the limited resources of sensor devices run with one time batteries Additi

Software-Defined Network Frameworks Mandeep Kaur, Vishal Jain, Parma Nand, Nitin Rakesh, 2024-04-22 Software Defined Networks SDN work by virtualization of the network and the Cognitive Software Defined Network CSDN combines the efficiencies of SDN with cognitive learning algorithms and enhanced protocols to automatize SDN Partial deployment of SDN along with traditional networking devices forms a Hybrid Software Defined Network HSDN Software Defined Network Frameworks Security Issues and Use Cases consolidates the research relating to the security in SDN CSDN and Hybrid SDNs The security enhancements derived from the use of various SDN frameworks and the security challenges thus introduced are also discussed Overall this book explains the different architectures of SDNs and the security challenges needed for implementing them Features Illustrates different frameworks of SDN and their security issues in a single volume Discusses design and assessment of efficient SDN northbound southbound interfaces Describes cognitive computing affective computing machine learning and other novel tools Illustrates coupling of SDN and traditional networking Hybrid SDN Explores services technologies algorithms and methods for data analysis in CSDN The book is aimed at researchers and graduate students in software engineering network security computer networks high performance computing communications engineering and intelligent systems *Human-Centered Design, Operation and Evaluation of Mobile Communications*

June Wei, George Margetis, 2025-06-07 This book constitutes the refereed proceedings of the 6th International Conference on Design Operation and Evaluation of Mobile Communications MOBILE 2025 held as part of the 27th International Conference HCI International 2025 which was held in Gothenburg Sweden during June 22 27 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions The MOBILE 2025 proceedings were organized in the following topical sections Mobile Usability Experience and Personalization Mobile Health Inclusivity and Well Being Mobile Security Protection and Risk Assessment and Mobile Applications for Culture and Social Engagement **Data Analytics** Andrea Cali, Peter Wood, Nigel Martin, Alexandra

Poulovassilis,2017-06-28 This book constitutes the refereed conference proceedings of the 31st British International Conference on Databases BICOD 2017 formerly known as BNCOD British National Conference on Databases held in London UK in July 2017 The 17 revised full papers were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics such as data cleansing data integration data wrangling data mining and knowledge discovery graph data and knowledge graphs intelligent data analysis approximate and flexible querying data provenance and ontology based data access They are organized in the following topical sections data wrangling and data integration data analysis and data mining graph data querying and analysis multidimensional data and data quality and distributed and multimedia data management

Challenges and Opportunities of Connected K-Covered Wireless Sensor Networks Habib M.

Ammari,2009-08-10 Wireless sensor networks have received significant attention because of their important role and many conveniences in our lives Indeed the recent and fast advances in inexpensive sensor technology and wireless communications has made the design and development of large scale wireless sensor networks cost effective and appealing to a wide range of mission critical situations including civilian natural industrial and military applications such as health and environmental monitoring seism monitoring industrial process automation and battlefields surveillance respectively A wireless sensor network consists of a large number of tiny low powered devices called sensors which are randomly or deterministically deployed in a field of interest while collaborating and coordinating for the successful accomplishment of their mission These sensors suffer from very scarce resources and capabilities such as bandwidth storage CPU battery power or energy sensing and communication to name a few with energy being the most critical one The major challenge in the design process of this type of network is mainly due to the limited capabilities of the sensors and particularly their energy which makes them unreliable This book aims to develop a reader s thorough understanding of the opportunities and challenges of k covered wireless sensor networks where each point in a deployment field is covered or sensed by at least k sensors Following Ren Descartes most elegant methodology of dividing each difficulty into as many parts as might be possible and necessary to best solve it Discours de la Method 1637 this book presents a variety of theoretical studies based on percolation theory and computational geometry as well as protocols that lead to the design of a unified framework where connected k coverage sensor scheduling and data routing and dissemination are jointly considered

Harnessing the Internet of Things (IoT)

for a Hyper-Connected Smart World Indu Bala,Kiran Ahuja,2022-10-06 Showcasing the diverse ways that IoT can be employed for improvement in many areas of contemporary life this new volume explores a multitude of IoT applications that provide advanced solutions for real world problems The selection of topics includes network on chip as the new paradigm for system on chip integration for maintaining high performance for IoT applications new router designs to increase speed and the challenges of wireless underground sensor networks which have a wide range of applications in military underground sensing testing soil traits and moisture content pollution control and location detection security and detection of natural

calamities Various state of the art techniques such as optimization schemes blockchain machine learning orthogonal frequency division multiplexing etc are also discussed in the context of cognitive IoT The volume considers the uses of IoT in agriculture discussing challenges along with solutions with the help of the latest technical smart tools to uplift the farming community specifically IoT applications for information gathering to improve yield productivity food and crop quality and sustainability monitoring toxic substances and soil properties etc The book also covers a broad spectrum of IoT applications in the educational industry along with the challenges associated with them and how to facilitate the use of smart classroom technology A chapter on IoT in the healthcare industry presents an IoT based GPS enabled smart jacket design to monitor heart rate sugar level blood pressure fever and stress level The authors also present an IoT based Peltier air conditioner design that overcomes the limitations of existing HVAC framework a review of various energy harvesting techniques to generate electrical power from non conventional power sources with their merits and demerits and much more

Ultra-Low Energy Wireless Sensor Networks in Practice Mauri Kuorilehto, Mikko Kohvakka, Jukka Suhonen, Panu Hämäläinen, Marko Hännikäinen, Timo D. Hamalainen, 2008-02-28 Finally a book on Wireless Sensor Networks that covers real world applications and contains practical advice Kuorilehto et al have written the first practical guide to wireless sensor networks The authors draw on their experience in the development and field testing of autonomous wireless sensor networks WSNs to offer a comprehensive reference on fundamentals practical matters limitations and solutions of this fast moving research area Ultra Low Energy Wireless Sensor Networks in Practice Explains the essential problems and issues in real wireless sensor networks and analyzes the most promising solutions Provides a comprehensive guide to applications functionality protocols and algorithms for WSNs Offers practical experiences from new applications and their field testing including several deployed networks Includes simulations and physical measurements for energy consumption bit rate latency memory and lifetime Covers embedded resource limited operating systems middleware and application software Ultra Low Energy Wireless Sensor Networks in Practice will prove essential reading for Research Scientists advanced students in Networking Electrical Engineering and Computer Science as well as Product Managers and Design Engineers

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Theory and Practice of Wireless Sensor Networks: Cover, Sense, and Inform Habib M. Ammari, 2022-10-03 This book aims at developing a reader's thorough understanding of the challenges and opportunities of two categories of networks namely k -covered wireless sensor networks and k -barrier covered wireless sensor networks It presents a variety of theoretical studies based on percolation theory convexity theory and applied computational geometry as well as the algorithms and protocols that are essential to their design analysis and development Particularly this book focuses on the cover sense and inform CSI paradigm with a goal to build a unified framework where connected k -coverage or k -barrier coverage sensor scheduling and geographic data forwarding gathering and delivery are jointly considered It provides the interested reader with a fine study of the above networks which can be covered in introductory and advanced courses on wireless sensor networks This book is useful to senior undergraduate and graduate students in computer science computer engineering electrical engineering information science information technology mathematics and any related discipline Also it is of interest to computer scientists researchers and practitioners in academia and industry with interest in these two networks from their deployment until data gathering and delivery

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