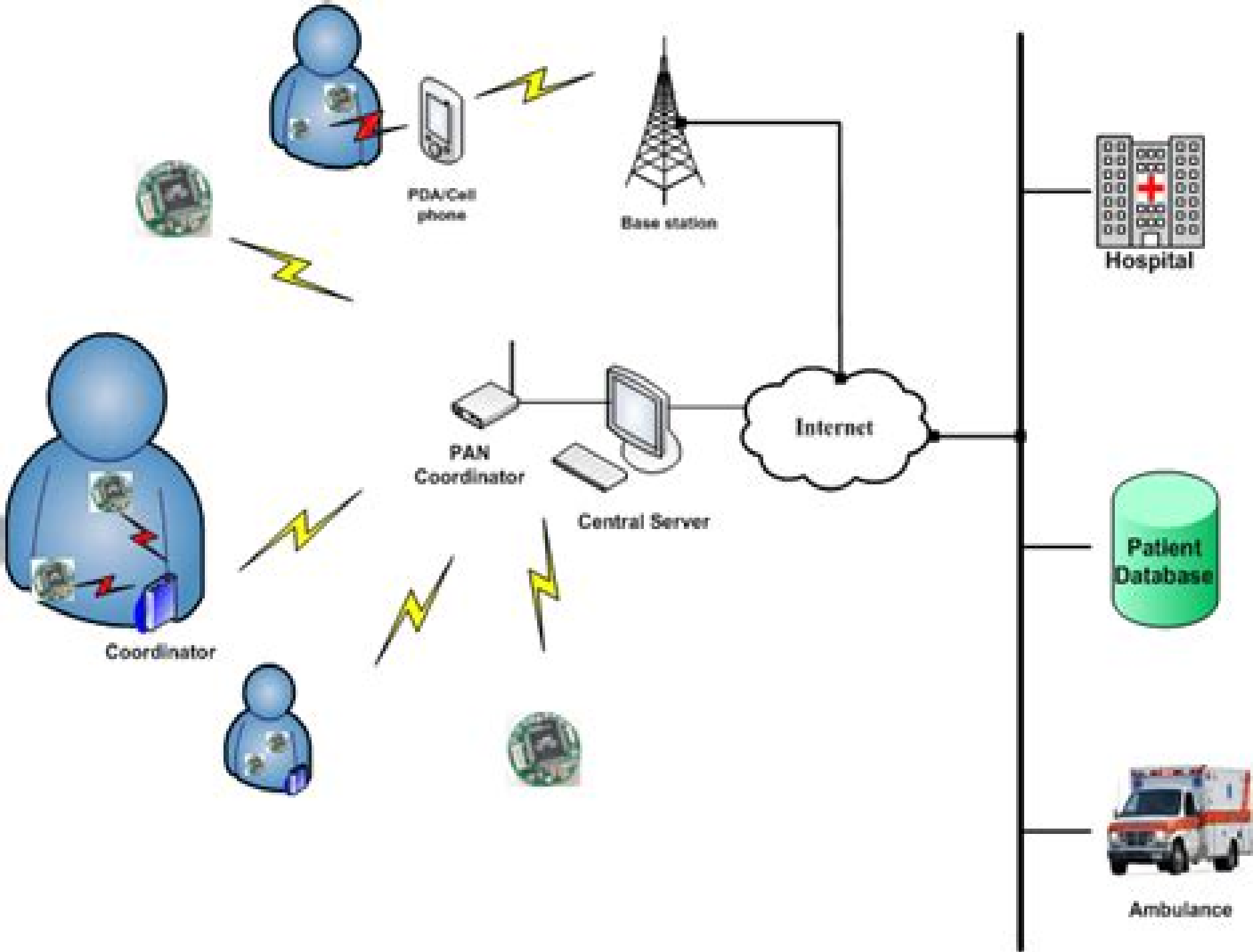




Wireless Sensor Networks For Healthcare Applications

Guang-Zhong Yang



Wireless Sensor Networks For Healthcare Applications:

Wireless Sensor Networks for Healthcare Applications Terrance J. Dishongh, Michael McGrath, Ben Kuris, 2010 This unique reference focuses on methods of application validation and testing based on real deployments of sensor networks in the clinical and home environments Key topics include healthcare and wireless sensors sensor network applications designs of experiments using sensors data collection and decision making clinical deployment of wireless sensor networks contextual awareness medication prompting field trials in homes social health monitoring and the future of wireless sensor networks in healthcare

Wireless Sensor Networks for Healthcare Applications, 2009 Co-operative and Energy Efficient Body Area and Wireless Sensor Networks for Healthcare Applications Akram Alomainy, Raffaele Di Bari, Qammer H. Abbasi, Yifan Chen, 2014-02-18 With the advances in small and low cost radio transceivers and RF front ends development the possibility of applying ubiquitous and non invasive sensors integrated into user s daily clothing and living activities seems more feasible The ability to share data increases the usefulness of personal information devices providing features not possible with independent isolated devices Current wireless sensor solutions are limited in that they do not provide the means to overcome obstacles and shadowing of propagating radio waves Thus for reliable communications an increase in power consumption is required reducing battery life This book addresses the limitations outlined above by designing efficient and compact antenna systems These systems will be cooperative and also aware of the surrounding environment and neighboring units providing efficient and low power wireless connectivity for personal area network PAN and body area network BAN applications Analysis of wearable antenna design and performance Addresses the Influence of body worn antennas on radio channels and radio device performance from a power and error rate perspective Cooperative networking principles applied to body area networks showing the pros and cons of such concepts Real life case scenarios using ECG sample signals for potential application to healthcare monitoring

Healthcare Sensor Networks Daniel Tze Huei Lai, Marimuthu Palaniswami, Rezaul Begg, 2016-04-19 Healthcare sensor networks HSNs now offer the possibility to continuously monitor human activity and physiological signals in a mobile environment Such sensor networks may be able to reduce the strain on the present healthcare workforce by providing new autonomous monitoring services ranging from simple user reminder systems to more advanced mon

Wireless Sensor Network for Health Monitoring Jin Soo Choi, 2012 Wireless Sensor Network WSN is becoming a significant enabling technology for a wide variety of applications Recent advances in WSN have facilitated the realization of pervasive health monitoring for both homecare and hospital environments Current technological advances in sensors power efficient integrated circuits and wireless communication have allowed the development of miniature lightweight low cost and smart physiological sensor nodes These nodes are capable of sensing processing and communicating one or more vital signs Furthermore they can be used in wireless personal area networks WPANs or wireless body sensor networks WBSNs for health monitoring Many studies were performed and or are under way in order to develop

flexible reliable secure real time and power efficient WBSNs suitable for healthcare applications To efficiently control and monitor a patient s status as well as to reduce the cost of power and maintenance IEEE 802 15 4 ZigBee a communication standard for low power wireless communication is developed as a new efficient technology in health monitoring systems The main contribution of this dissertation is to provide a modeling analysis and design framework for WSN health monitoring systems This dissertation describes the applications of wireless sensor networks in the healthcare area and discusses the related issues and challenges The main goal of this study is to evaluate the acceptance of the current wireless standard for enabling WSNs for healthcare monitoring in real environment Its focus is on IEEE 802 15 4 ZigBee protocols combined with hardware and software platforms Especially it focuses on Carrier Sense Multiple Access with Collision Avoidance mechanism CSMA CA algorithms for reliable communication in multiple accessing networks The performance analysis metrics are established through measured data and mathematical analysis This dissertation evaluates the network performance of the IEEE 802 15 4 unslotted CSMA CA mechanism for different parameter settings through analytical modeling and simulation For this protocol a Markov chain model is used to derive the analytical expression of normalized packet transmission reliability channel access delay and energy consumption This model is used to describe the stochastic behavior of random access and deterministic behavior of IEEE 802 15 4 CSMA CA By using it the different aspects of health monitoring can be analyzed The sound transmission of heart beat with other smaller data packet transmission is studied The obtained theoretical analysis and simulation results can be used to estimate and design the high performance health monitoring systems

Sensor Technologies Michael J. McGrath, Clíodhna Ni Scanail, Dawn Nafus, 2014-01-23 Sensor Technologies Healthcare Wellness and Environmental Applications explores the key aspects of sensor technologies covering wired wireless and discrete sensors for the specific application domains of healthcare wellness and environmental sensing It discusses the social regulatory and design considerations specific to these domains The book provides an application based approach using real world examples to illustrate the application of sensor technologies in a practical and experiential manner The book guides the reader from the formulation of the research question through the design and validation process to the deployment and management phase of sensor applications The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs Sensor Technologies Healthcare Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare wellness and environmental monitoring From sensor hardware to system applications and case studies this book gives readers an in depth understanding of the technologies and how they can be applied I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications Dr Benny Lo Lecturer The Hamlyn Centre Imperial College of London This timely addition to the literature on sensors covers the broad complexity of sensing sensor types and the vast range of existing and emerging applications in a very clearly written and accessible manner It is

particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud based big data analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of big data down to the personal level of individual life and health Dermot Diamond Director National Centre for Sensor Research Principal Investigator CLARITY Centre for Sensor Web Technologies Dublin City University Sensor Technologies Healthcare Wellness and Environmental Applications takes the reader on an end to end journey of sensor technologies covering the fundamentals from an engineering perspective introducing how the data gleaned can be both processed and visualized in addition to offering exemplar case studies in a number of application domains It is a must read for those studying any undergraduate course that involves sensor technologies It also provides a thorough foundation for those involved in the research and development of applied sensor systems I highly recommend it to any engineer who wishes to broaden their knowledge in this area Chris Nugent Professor of Biomedical Engineering University of Ulster

Wireless Sensor Networks Asim Rashid Sheikh, 2011-01 The most emerging technology of sensor networks is the use of them in the medical care to save patients lives create valuable data for medical research and cut the cost of medical services Recently body sensor networks are used for remote health monitoring and patient care This book therefore attempts to provide of unified overview of broader field of Wireless Sensor Networks in healthcare applications The organization of the book starts with the background of wireless sensor networks and then completes description of the patient health metrics heart rate and blood oxygen saturation SpO2 by using body sensor networks for better treatment In this book the idea of architecture of wireless sensor networks is presented for the monitoring of patients different health metrics heart rate and blood oxygen saturation levels for treatment at home The main focus of book is to examine monitor and analyze patient heart beat activities and oxygen saturation level in order to meet better treatment and health care In addition this book provides countermeasures of different security attacks related to data gathering from different sensors

Body Sensor Networks Guang-Zhong Yang, 2014-04-16 The last decade has witnessed a rapid surge of interest in new sensing and monitoring devices for wellbeing and healthcare One key development in this area is wireless wearable and implantable in vivo monitoring and intervention A myriad of platforms are now available from both academic institutions and commercial organisations They permit the management of patients with both acute and chronic symptoms including diabetes cardiovascular diseases treatment of epilepsy and other debilitating neurological disorders Despite extensive developments in sensing technologies there are significant research issues related to system integration sensor miniaturisation low power sensor interface wireless telemetry and signal processing In the 2nd edition of this popular and authoritative reference on Body Sensor Networks BSN major topics related to the latest technological developments and potential clinical applications are discussed with contents covering Biosensor Design Interfacing and Nanotechnology Wireless Communication and

Network Topologies Communication Protocols and Standards Energy Harvesting and Power Delivery Ultra low Power Bio inspired Processing Multi sensor Fusion and Context Aware Sensing Autonomic Sensing Wearable Ingestible Sensor Integration and Exemplar Applications System Integration and Wireless Sensor Microsystems The book also provides a comprehensive review of the current wireless sensor development platforms and a step by step guide to developing your own BSN applications through the use of the BSN development kit

Emerging Technologies and the Application of WSN and IoT Shalli Rani, 2024-04-30 The Internet of Things IoT has numerous applications including smart cities industries cloud based apps smart homes and surveillance The Internet of Things IoT enables smarter living by connecting devices people and objects As networking became a crucial aspect of the Internet rigorous design analysis led to the development of new research areas The Internet of Things has revolutionized daily living in countless ways It enables communication between buildings people portable gadgets and vehicles facilitating mobility Smart cities and cloud based data have transformed corporate practices With billions of connected gadgets everything will soon be able to communicate remotely IoT networks whether public or private rely significantly on machine learning and software defined networking Indian and other governments have approved various research projects on IoT based networking technologies This field of study will significantly impact society in the future Researchers are concerned about the many application areas and driving forces behind smart cities The authors aim to provide insights into software defined networking artificial intelligence and machine learning technologies used in IoT and networking The framework focuses on practical applications and infrastructures The book includes practical challenges case studies innovative concepts and other factors that impact the development of realistic scenarios for smart surveillance It also highlights innovative technology designs and algorithms that can accelerate the creation of smart city concepts This resource includes real world applications and case studies for smart city technology enormous data management and machine learning prediction all with confidentiality and safety problems

Innovation in Medicine and Healthcare 2014 M. Graña, C. Toro, R.J. Howlett, 2015-01-06 Advances are constantly being made in the fields of medicine and healthcare and keeping abreast of them is not always easy This book presents the proceedings of the second KES International Conference on Innovation in Medicine and Healthcare InMed 14 held in San Sebastian Spain in July 2014 The conference was attended by researchers and engineers managers students and practitioners from a broad spectrum of medically related fields and this multidisciplinary group discussed the ways in which technological and methodological innovation knowledge exchange and enterprise can be applied to issues relating to medicine surgery healthcare and the issues of an ageing population A central theme of the conference was smart medical and healthcare systems which explored how modern intelligent systems can contribute to the solution of problems faced by healthcare and medical practitioners today and addressed the application of the systems The 43 papers included here provided a useful and interesting reference for anyone requiring an overview of current innovations in healthcare

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