

Chandra Shekar Kemedi

Relay Nodes in Big-Data Wireless Sensor Networks

Scientific Essay

Relay Nodes In Big Data Wireless Sensor Networks

**Ashok Kumar, Megha Bhushan, Jose A.
Galindo, Lalit Garg, Yu-Chen Hu**

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Relay Nodes in Big-Data Wireless Sensor Networks Chandra Shekar Kemedi,2014 **Wireless Sensor Networks** Fadi Al-Turjman,2018-01-03 Wireless Sensor Networks overcome the difficulties of other monitoring systems However they require further efficiencies for Outdoor Environment Monitoring OEM applications due to their harsh operational conditions huge targeted areas limited energy budget and required 3D setups A fundamental issue in defeating these practical challenges is deployment planning The deployment plan is a key factor of many intrinsic properties of OEM networks summarized in connectivity lifetime fault tolerance and cost effectiveness This book investigates the problem of WSNs deployments that address these properties in order to overcome the unique challenges and circumstances in OEM applications Internet of Things and Big Data Technologies for Next Generation Healthcare Chintan Bhatt,Nilanjan Dey,Amira S. Ashour,2017-01-01 This comprehensive book focuses on better big data security for healthcare organizations Following an extensive introduction to the Internet of Things IoT in healthcare including challenging topics and scenarios it offers an in depth analysis of medical body area networks with the 5th generation of IoT communication technology along with its nanotechnology It also describes a novel strategic framework and computationally intelligent model to measure possible security vulnerabilities in the context of e health Moreover the book addresses healthcare systems that handle large volumes of data driven by patients records and health personal information including big data based knowledge management systems to support clinical decisions Several of the issues faced in storing processing big data are presented along with the available tools technologies and algorithms to deal with those problems as well as a case study in healthcare analytics Addressing trust privacy and security issues as well as the IoT and big data challenges the book highlights the advances in the field to guide engineers developing different IoT devices and evaluating the performance of different IoT techniques Additionally it explores the impact of such technologies on public private community and hybrid scenarios in healthcare This book offers professionals scientists and engineers the latest technologies techniques and strategies for IoT and big data **Internet of Things and Big Data Applications** Valentina E. Balas,Vijender Kumar Solanki,Raghvendra Kumar,2020-02-24 This book provides essential future directions for IoT and Big Data research Thanks to rapid advances in sensors and wireless technology Internet of Things IoT related applications are attracting more and more attention As more devices are connected they become potential components for smart applications Thus there is a new global interest in these applications in various domains such as health agriculture energy security and retail The main objective of this book is to reflect the multifaceted nature of IoT and Big Data in a single source Accordingly each chapter addresses a specific domain that is now being significantly impacted by the spread of soft computing Wireless Sensor Networks Ian F. Akyildiz,Mehmet Can Vuran,2010-06-10 This book presents an in depth study on the recent advances in Wireless Sensor Networks WSNs The authors describe the existing WSN applications and discuss the research efforts being undertaken in

this field Theoretical analysis and factors influencing protocol design are also highlighted The authors explore state of the art protocols for WSN protocol stack in transport routing data link and physical layers Moreover the synchronization and localization problems in WSNs are investigated along with existing solutions Furthermore cross layer solutions are described Finally developing areas of WSNs including sensor actor networks multimedia sensor networks and WSN applications in underwater and underground environments are explored The book is written in an accessible textbook style and includes problems and solutions to assist learning Key Features The ultimate guide to recent advances and research into WSNs Discusses the most important problems and issues that arise when programming and designing WSN systems Shows why the unique features of WSNs self organization cooperation correlation will enable new applications that will provide the end user with intelligence and a better understanding of the environment Provides an overview of the existing evaluation approaches for WSNs including physical testbeds and software simulation environments Includes examples and learning exercises with a solutions manual supplemented by an accompanying website containing PPT slides Wireless Sensor Networks is an essential textbook for advanced students on courses in wireless communications networking and computer science It will also be of interest to researchers system and chip designers network planners technical managers and other professionals in these fields

Internet of Things and Big Data Analytics Toward Next-Generation Intelligence Nilanjan Dey, Aboul Ella Hassanien, Chintan Bhatt, Amira S. Ashour, Suresh Chandra Satapathy, 2017-08-14 This book highlights state of the art research on big data and the Internet of Things IoT along with related areas to ensure efficient and Internet compatible IoT systems It not only discusses big data security and privacy challenges but also energy efficient approaches to improving virtual machine placement in cloud computing environments Big data and the Internet of Things IoT are ultimately two sides of the same coin yet extracting analyzing and managing IoT data poses a serious challenge Accordingly proper analytics infrastructures platforms should be used to analyze IoT data Information technology IT allows people to upload retrieve store and collect information which ultimately forms big data The use of big data analytics has grown tremendously in just the past few years At the same time the IoT has entered the public consciousness sparking people's imaginations as to what a fully connected world can offer Further the book discusses the analysis of real time big data to derive actionable intelligence in enterprise applications in several domains such as in industry and agriculture It explores possible automated solutions in daily life including structures for smart cities and automated home systems based on IoT technology as well as health care systems that manage large amounts of data big data to improve clinical decisions The book addresses the security and privacy of the IoT and big data technologies while also revealing the impact of IoT technologies on several scenarios in smart cities design Intended as a comprehensive introduction it offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in IoT and big data technologies **Principles of Internet of Things (IoT) Ecosystem: Insight Paradigm** Sheng-Lung Peng, Souvik Pal, Lianfen Huang, 2019-11-13 This

book discusses the evolution of future generation technologies through the Internet of things bringing together all the related technologies on a single platform to offer valuable insights for undergraduate and postgraduate students researchers academics and industry practitioners The book uses data network engineering and intelligent decision support system by design principles to design a reliable IoT enabled ecosystem and to implement cyber physical pervasive infrastructure solutions It takes readers on a journey that begins with understanding the insight paradigm of IoT enabled technologies and how it can be applied It walks readers through engaging with real time challenges and building a safe infrastructure for IoT based future generation technologies The book helps researchers and practitioners to understand the design architecture through IoT and the state of the art in IoT countermeasures It also highlights the differences between heterogeneous platforms in IoT enabled infrastructure and traditional ad hoc or infrastructural networks and provides a comprehensive discussion on functional frameworks for IoT object identification IoT domain model RFID technology wearable sensors WBAN IoT semantics knowledge extraction and security and privacy issues in IoT based ecosystems Written by leading international experts it explores IoT enabled insight paradigms which are utilized for the future benefit of humans It also includes references to numerous works Divided into stand alone chapters this highly readable book is intended for specialists researchers graduate students designers experts and engineers involved in research on healthcare related issues

Proceedings of ICETIT 2019 Pradeep Kumar Singh,Bijaya Ketan Panigrahi,Nagender Kumar Suryadevara,Sudhir Kumar Sharma,Amit Prakash Singh,2019-09-23 This book presents high quality original contributions both theoretical and experimental on Information Security Machine Learning Data Mining and Internet of Things IoT It gathers papers presented at ICETIT 2019 the 1st International Conference on Emerging Trends in Information Technology which was held in Delhi India in June 2019 This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies AI and machine learning data analytics and cloud computing security and privacy and next generation computing technologies *Advances on Intelligent Computing and Data Science* Faisal Saeed,Fathey Mohammed,Errais Mohammed,Tawfik Al-Hadhrani,Mohammed Al-Sarem,2023-08-16 This book presents the papers included in the proceedings of the 3rd International Conference of Advanced Computing and Informatics ICACin 22 that was held in Casablanca Morocco on October 15 16 2022 A total of 98 papers were submitted to the conference but only 60 papers were accepted and published in this book with an acceptance rate of 61% The book presents several hot research topics which include artificial intelligence and data science big data analytics Internet of Things IoT and smart cities information security cloud computing and networking and computational informatics

Machine Intelligence, Big Data Analytics, and IoT in Image Processing Ashok Kumar,Megha Bhushan,Jose A. Galindo,Lalit Garg,Yu-Chen Hu,2023-02-14 MACHINE INTELLIGENCE BIG DATA ANALYTICS AND IoT IN IMAGE PROCESSING Discusses both theoretical and practical aspects of how to harness advanced technologies to develop practical

applications such as drone based surveillance smart transportation healthcare farming solutions and robotics used in automation The concepts of machine intelligence big data analytics and the Internet of Things IoT continue to improve our lives through various cutting edge applications such as disease detection in real time crop yield prediction smart parking and so forth The transformative effects of these technologies are life changing because they play an important role in demystifying smart healthcare plant pathology and smart city village planning design and development This book presents a cross disciplinary perspective on the practical applications of machine intelligence big data analytics and IoT by compiling cutting edge research and insights from researchers academicians and practitioners worldwide It identifies and discusses various advanced technologies such as artificial intelligence machine learning IoT image processing network security cloud computing and sensors to provide effective solutions to the lifestyle challenges faced by humankind Machine Intelligence Big Data Analytics and IoT in Image Processing is a significant addition to the body of knowledge on practical applications emerging from machine intelligence big data analytics and IoT The chapters deal with specific areas of applications of these technologies This deliberate choice of covering a diversity of fields was to emphasize the applications of these technologies in almost every contemporary aspect of real life to assist working in different sectors by understanding and exploiting the strategic opportunities offered by these technologies Audience The book will be of interest to a range of researchers and scientists in artificial intelligence who work on practical applications using machine learning big data analytics natural language processing pattern recognition and IoT by analyzing images Software developers industry specialists and policymakers in medicine agriculture smart cities development transportation etc will find this book exceedingly useful

Multimedia Big Data Computing for IoT Applications Sudeep Tanwar, Sudhanshu Tyagi, Neeraj Kumar, 2019-07-17 This book considers all aspects of managing the complexity of Multimedia Big Data Computing MMBD for IoT applications and develops a comprehensive taxonomy It also discusses a process model that addresses a number of research challenges associated with MMBD such as scalability accessibility reliability heterogeneity and Quality of Service QoS requirements presenting case studies to demonstrate its application Further the book examines the layered architecture of MMBD computing and compares the life cycle of both big data and MMBD Written by leading experts it also includes numerous solved examples technical descriptions scenarios procedures and algorithms Big Data and Internet of Things Oussama Mahboub, Khalid Haddouch, Hicham Omara, Mostafa Hefnawi, 2025-01-02 Big Data and Internet of Things is the latest volume in the renowned Lecture Notes in Networks and Systems series This book compiles the latest research presented at the Seventh International Conference on Big Data and Internet of Things BDIoT 24 showcasing innovative solutions emerging trends and practical applications in the fields of big data and IoT An essential read for researchers professionals and students looking to stay ahead in the rapidly evolving world of technology The series contains proceedings and edited volumes in systems and networks spanning the areas of Cyber Physical Systems Autonomous Systems Sensor Networks Control Systems

Energy Systems Automotive Systems Biological Systems Vehicular Networking and Connected Vehicles Aerospace Systems Automation Manufacturing Smart Grids Nonlinear Systems Power Systems Robotics Social Systems Economic Systems and other The series covers the theory applications and perspectives on the state of the art and future developments relevant to systems and networks decision making control complex processes and related areas as embedded in the fields of interdisciplinary and applied sciences engineering computer science physics economics social and life sciences as well as the paradigms and methodologies behind them

Multihop Mobile Wireless Networks Kannan Govindan, Deepthi Chander, Bhushan G. Jagyasi, 2022-09-01 Multihop Mobile Wireless Networks discusses issues pertaining to each of these networks and proposes novel and innovative algorithms on Scheduling Routing and Data aggregation that are viable solutions for multihop mobile networks Moreover the book provides the preliminaries and an excellent review on existing approaches in wireless communications Multihop Mobile Wireless Networks is suitable for academic and industrial research and can be used for advanced courses in Senior Undergraduate and Graduate programs

Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2020-01-25 This second book by the author on WSNs focuses on the concepts of energy and energy harvesting and management techniques Definitions and terminologies are made clear without leaning on the relaxing assumption that they are already known or easily reachable the reader is not to be diverted from the main course Neatly drawn figures assist in viewing and imagining the offered topics To make energy related topics felt and seen the adopted technologies as well as their manufacturers are presented in details With such a depth this book is intended for a wide audience it is meant to be helper and motivator for the senior undergraduates postgraduates researchers and practitioners concepts and energy related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes with conceptual foundations and practical projects implementations Also it is intended for graduate students working on their thesis and in need of specific knowledge on WSNs and the related energy harvesting and management techniques Moreover it is targeting researchers and practitioners interested in features and applications of WSNs and on the available energy harvesting and management projects and testbeds Exercises at the end of each chapter are not just questions and answers they are not limited to recapitulate ideas Their design objective is not bound to be a methodical review of the provided concepts but rather as a motivator for lot more of searching finding and comparing beyond what has been presented in the book

IoT and WSN based Smart Cities: A Machine Learning Perspective Shalli Rani, Vyasa Sai, R. Maheswar, 2022-05-30 This book provides an investigative approach to how machine learning is helping to maintain and secure smart cities including principal uses such as smart monitoring privacy reliability and public protection The authors cover important areas and issues around implementation roadblocks ideas and opportunities in smart city development The authors also include new algorithms architectures and platforms that can accelerate the growth of smart city concepts and applications Moreover this

book provides details on specific applications and case studies related to smart city infrastructures big data management and prediction techniques using machine learning

EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing Anandakumar Haldorai, Arulmurugan Ramu, Sudha Mohanram, Chow Chee Onn, 2019-10-18 This proceeding features papers discussing big data innovation for sustainable cognitive computing The papers feature detail on cognitive computing and its self learning systems that use data mining pattern recognition and natural language processing NLP to mirror the way the human brain works This international conference focuses on cognitive computing technologies from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches Topics covered include Data Science for Cognitive Analysis Real Time Ubiquitous Data Science Platform for Privacy Preserving Data Science and Internet Based Cognitive Platform The EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing BDCC 2018 took place on 13 15 December 2018 in Coimbatore India

Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics Taser, Pelin Yildirim, 2021-11-05 The internet of things IoT has emerged to address the need for connectivity and seamless integration with other devices as well as big data platforms for analytics However there are challenges that IoT based applications face including design and implementation issues connectivity problems data gathering storing and analyzing in cloud based environments and IoT security and privacy issues Emerging Trends in IoT and Integration with Data Science Cloud Computing and Big Data Analytics is a critical reference source that provides theoretical frameworks and research findings on IoT and big data integration Highlighting topics that include wearable sensors machine learning machine intelligence and mobile computing this book serves professionals who want to improve their understanding of the strategic role of trust at different levels of the information and knowledge society It is therefore of most value to data scientists computer scientists data analysts IT specialists academicians professionals researchers and students working in the field of information and knowledge management in various disciplines that include but are not limited to information and communication sciences administrative sciences and management education sociology computer science etc Moreover the book provides insights and supports executives concerned with the management of expertise knowledge information and organizational development in different types of work communities and environments

Microbial Data Intelligence and Computational Techniques for Sustainable Computing Aditya Khamparia, Babita Pandey, Devendra Kumar Pandey, Deepak Gupta, 2024-02-29 This book offers information on intelligent and computational techniques for microbial data associated with plant microbes human microbes etc The main focus of this book is to provide an insight on building smart sustainable solutions for microbial technology using intelligent computational techniques Microbes are ubiquitous in nature and their interactions among each other are important for colonizing diverse habitats The core idea of sustainable computing is to deploy algorithms models policies and protocols to improve energy efficiency and management of resources enhancing ecological balance biological

sustenance and other services on societal contexts Chapters in this book explore the conventional methods as well as the most recently recognized high throughput technologies which are important for productive agroecosystems to feed the growing global population This book is of interest to teachers researchers microbiologist computer bioinformatics scientists plant and environmental scientist and those interested in environment stewardship around the world The book also serves as an advanced textbook material for undergraduate and graduate students of computer science biomedicine agriculture human science forestry ecology soil science and environmental sciences and policy makers Distributed Computing and Internet Technology Chittaranjan Hota,Pradip K. Srimani,2013-01-11 This book constitutes the refereed proceedings of the 9th International Conference on Distributed Computing and Internet Technology ICDCIT 2013 held in Bhubaneswar India in February 2013 The 40 full papers presented together with 5 invited talks in this volume were carefully reviewed and selected from 164 submissions The papers cover various research aspects in distributed computing internet technology computer networks and machine learning *Computing and Combinatorics* Lusheng Wang,2005-09-07 The papers in this volume were presented at the Eleventh Annual International Computing and Combinatorics Conference COCOON 2005 held August 16 19 2005 in Kunming China

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