



Balaji Kore
Rameshwar Murade
Abhijit Rajguru

Energy Aware Technique For Wireless Sensor Network

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Energy Aware Technique For Wireless Sensor Network:

Energy Aware Technique For Wireless Sensor Network Balaji Kore, Rameshwar Murade, Abhijit Rajguru, 2014-11-01
This book covers current research area WSN. The main problem with WSN is energy of sensor node. The different technique to save the energy is available with this book. Recently many algorithms are available to track energy saving problems in wireless sensor network to increase life time of network. The algorithms are top down approach and bottom up approach but there are problems with this techniques. The proposed technique is a delay aware technique for wireless sensor network using regular sleep and wake periods. The objective of proposed network structure is to minimize delay and to increase lifetime of wireless sensor network. The proposed network formation technique is sleep and wake period with top down approach. *Artificial Intelligence Based Energy Aware Routing Protocol AIEARP for Wireless Sensor Network* Dr. Pooja Singh, Dr. Reshma V. K., Dr. M. Sadish Sendil, Dr. Shivamurthaiah Mallaiah, 2022-11-16
The current progress in Wireless Sensor Network has taken to various new protocols formed especially for sensor networks in where the energy awareness is a necessary deliberation. Wireless Sensor Network is highly accessible for significant applications namely surveillance of security and environmental monitoring. The researchers all over the world are investigating about the most important parameter of wireless sensor network i.e. Energy. The main emphasis is given over the efficiency of energy as the energy saved by the wireless sensor network is less and the consumption of energy is high and this is the main reason behind the lifetime network depletion at a fast pace. There in the sensor nodes one more challenge is exhibited that is of the limited power capacity so for the same the battery should be either charged or changed as there are several functions which are to be performed by the energy of the sensor nodes being aggregation sensing and transmission of data and on board processing. Majorly the energy is consumed by the wireless data transmission among the nodes and more energy is consumed as compared to the other sensing and processing operations of data. The high energy is consumed because the data is transmitted over a large distance as the nodes are located far from each other. Further the collision overhearing and idle listening of the nodes are the major reasons behind the high wastage of energy during the transmission and the communication of data. There are several applications in which the nodes are disregarded and thus worsening the failure of nodes and enhancing the problem of high energy consumption. The success of the application is dependent over the network lifetime and the exchange or the recharging of the batteries is costly as well as not feasible. Therefore the attention of the researchers is seeking towards usage and the consumption of the energy. Further the development of such energy efficient network should be done which should cover and provide solution for all the above mentioned challenges so that the utility of the wireless sensor networks is enhanced in the applications related to it. The main intention of this study and book is to investigate in detail about the concept An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks. Significance of the Book This book convers and discusses about previous studies carried out in the

area of data fusion and the crucial issue in energy reduction of the sensor nodes during the data fusion. The main objectives of this book are:

- a) To analyze the energy aware routing protocol in wireless sensor network
- b) To examine the maximum energy consumption for routing process to sustain long life battery power in wireless sensor network
- c) To analyze the routing protocol enhancement by applying data fusion technique
- d) To explore the routing protocol enhancement by applying data fusion technique
- e) To propose an algorithm to integrate data fusion technique to enhance the consumption of energy

This book study is constrained to wireless sensor networks and limited to data fusion technique. However, this book study evaluates the concept of An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks. Finally, this book considers a novel network organization scheme: energy efficient Self organizing Map (K-Means) Feed forward scheme to organize sensor nodes into clusters with Data Fusion. Also, it proposes a Energy aware routing algorithm called Artificial Intelligence Based Energy Aware Routing Protocol (AIEARP) for Wireless Sensor Network for elevating sensor network lifetime. This book also shows the Experimental results for outperforms interims of network lifetime with dead nodes at different iteration and energy conservation with its energy consumption among the cluster heads.

The following is an overview of the contents of the chapter which presented in this Book:

- Chapter 1: Introduction of the EARP in WSN. This chapter provides the vital idea about the research concept: An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks, including the research background, problem statement, aims and objectives of the study, research questions, significance of the study and limitations of the research.
- Chapter 2: Literature Review. This chapter examines several works related to the conceptual framework model for An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks. In addition to these, this research explains in detail about the energy aware routing protocol in wireless sensor network. Apart from these, this research explains about the maximum energy consumption for routing process to sustain long life battery power in wireless sensor network. At last, this literature review chapter discusses about the routing protocol enhancement by applying data fusion technique and the routing protocol enhancement by applying data fusion technique. In addition to these, this research provides framework for An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks.
- Chapter 3: Research design. This chapter provides an overview about the intelligent energy aware routing protocol using data fusion technique in wireless sensor networks. This chapter explains about the steps to be followed in the developed method.
- Chapter 4: Result analysis in term of intelligent energy aware protocol. This chapter discusses about the analysis of implementation of proposed framework: An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks.
- Chapter 5: Conclusion. Future enhancement. This chapter explains about the summary of findings obtained through the analysis and results section and also gives conclusion to the research: An Intelligent Energy Aware Routing Protocol using Data Fusion Technique in Wireless Sensor Networks, followed by suggestions and recommendations for the future research.
- Bibliography

This section lists all works of interest including those mentioned in the text

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Wireless Sensor Networks Bhaskar Krishnamachari, 2010-03-02 This book constitutes the refereed proceedings of the 7th European Conference on Wireless Sensor Networks EWSN 2010 held in Coimbra Portugal in February 2010 The 21 revised full papers presented were carefully reviewed and selected from 109 submissions Topics of interest include hardware design and implementation operating systems and software middleware and macroprogramming communication and network protocols information and signal processing fundamental theoretical limits and algorithms prototypes field experiments testbeds novel applications including urban sensing security and fault tolerance The papers are organized in topical sections on localization synchronization and compression networking new directions programming and architecture as well as on link reliability

Building Wireless Sensor Networks Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy, 2017-12-19 Building Wireless Sensor Networks Theoretical and Practical Perspectives presents the state of the art of wireless sensor networks WSNs from fundamental concepts to cutting edge technologies Focusing on WSN topics ideal for undergraduate and postgraduate curricula this book Provides essential knowledge of the contemporary theory and practice of wireless sensor networking Describes WSN architectures protocols and operating systems Details the routing and data aggregation algorithms Addresses WSN security and energy efficiency Includes sample programs for experimentation The book offers overarching coverage of this exciting field filling a critical gap in the existing literature

Futuristic Sustainable Energy & Technology Rajesh Singh, Anita Gehlot, P.S. Ranjit, Dolly Sharma, 2022-06-07 Futuristic Sustainable Energy and Technology provides a structured overview of the concept of Futuristic Sustainable Energy and Technology It also explores the promotion of the sustainable development of renewable energy from the perspectives of technology modelling application sustainability and policy This book is dedicated to the advancement of energy efficiency to mitigate consumption ensure and replenish expand and reuse elective energy supplies and to replicate the damage caused by previous energy initiatives This book has offered a large stage of experimentation for practitioners experts researchers and teachers to incorporate and analyze their latest developments as well as the trends and difficulties encountered and the ongoing evolution of the stage in these areas

A Complete Guide to Wireless Sensor Networks Ankur Dumka, Sandip K. Chaurasiya, Arindam Biswas, Hardwari Lal Mandoria, 2019-05-31 This book provides comprehensive coverage of the major aspects in designing implementing and deploying wireless sensor networks by discussing present research on WSNs and their applications in various disciplines It familiarizes readers with the current state of WSNs and how such networks can be improved to achieve effectiveness and efficiency It starts with a detailed introduction of wireless sensor networks and their applications and proceeds with layered

architecture of WSNs It also addresses prominent issues such as mobility heterogeneity fault tolerance intermittent connectivity and cross layer optimization along with a number of existing solutions to stimulate future research *Advances in Power Systems and Energy Management* Amik Garg,Akash Kumar Bhoi,Padmanaban Sanjeevikumar,K. K.

Kamani,2017-11-28 This book is a collection of research articles and critical review articles describing the overall approach to energy management The book emphasizes the technical issues that drive energy efficiency in context of power systems This book contains case studies with and without solutions on modelling simulation and optimization techniques It covers some innovative topics such as medium voltage MV back to back BTB system cost optimization of a ring frame unit in textile industry rectenna for radio frequency RF energy harvesting ecology and energy dimension in infrastructural designs 2 4 kW three phase inverter for aircraft application study of automatic generation control AGC in a two area hydrothermal power system energy efficient and reliable depth based routing protocol for underwater wireless sensor network and power line communication using LabVIEW This book is primarily targeted at researchers and senior graduate students but is also highly useful for the industry professional and scientists **Innovations in Information and Communication Technologies (IICT-2020)**

Pradeep Kumar Singh,Zdzislaw Polkowski,Sudeep Tanwar,Sunil Kumar Pandey,Gheorghe Matei,Daniela Pirvu,2021-07-15 This edited book is comprised of original research that focuses on technological advancements for effective teaching with an emphasis on learning outcomes ICT trends in higher education sustainable developments and digital ecosystem in education management and industries The contents of the book are classified as i Emerging ICT Trends in Education Management and Innovations ii Digital Technologies for advancements in education management and IT iii Emerging Technologies for Industries and Education and iv ICT Technologies for Intelligent Applications The book represents a useful tool for academics researchers industry professionals and policymakers to share and learn about the latest teaching and learning practices supported by ICT It also covers innovative concepts applied in education management and industries using ICT tools Communication and Computing Systems B.M.K. Prasad,Karan Singh,Shyam S. Pandey,Richard

O'Kennedy,2019-10-22 The International Conference on Communication and Computing Systems ICCCS 2018 provides a high level international forum for researchers and recent advances in the field of electronic devices computing big data analytics cyber security quantum computing biocomputing telecommunication etc The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research **International Conference on Innovative Computing and Communications**

Ashish Khanna,Deepak Gupta,Siddhartha Bhattacharyya,Vaclav Snasel,Jan Platos,Aboul Ella Hassanien,2019-11-16 This book gathers high quality research papers presented at the Second International Conference on Innovative Computing and Communication ICICC 2019 which was held at the VSB Technical University of Ostrava Czech Republic on 21 22 March 2019 Highlighting innovative papers by scientists scholars students and industry experts in the fields of computing and communication the book promotes the transformation of fundamental

research into institutional and industrialized research and the translation of applied research into real world applications

6G Communications Networking and Signal Processing Terence Kin Shun Wong, Vinod Kiran Kappala, 2025-02-13
This book includes peer reviewed papers of the International Conference on 6G Communications Networking and Signal Processing SGCNSP 2023 This book focuses on conceptual frameworks that help understand the basics of electronics electrical and communication It also provides an overview of the upcoming advanced technologies supporting 6G signal processing communication systems and networks mobile and wireless networks and RF and optical communication This book is useful for undergraduate and postgraduate students and research scholars

An Intelligent and Adaptable Energy -Aware Service Model for the Internet of Things Dr.A.VIJAYA KRISHNA, **Context-Aware Systems and Applications** Phan Cong Vinh, Nguyen Manh Hung, Nguyen Thanh Tung, Jun Suzuki, 2013-02-02 This book constitutes the thoroughly refereed proceedings of the first International Conference on Context Aware Systems and Applications ICCASA 2012 held in Ho Chi Minh City Vietnam in November 2012 The 34 revised full papers presented were carefully selected and reviewed from over 100 submissions The papers cover a wide spectrum of issues in the area of Context Aware Systems CAS CAS are going to shape networked computing systems of the future

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Distributed Computing and Internet Technology Goutam Chakraborty, 2005-12-09 The opening ceremony and pre conference tutorials on various related topics were held on December 21 The technical program started on December 22 and continued for three days The program was arranged in single track so as to enable participants to attend sessions of different tracks Papers from the DM IT SE and SS tracks were divided into two sessions whereas DC track sessions were held on the first two days of the conference The program also included two plenary talks The first talk was delivered by S S Iyengar from Louisiana State University USA The second talk was delivered by He Jifeng from the International Institute for Software Technology IIST Macau Prof Iyengar's talk on The Distributed Sensor Networks An Emerging Technology was focused on new ideas about the use of distributed systems for emerging technology while Prof Jifeng's talk on Linking Theories of Concurrency by Retraction dealt with semantics of concurrency All the conference committee members contributed towards the success of ICDCIT 2005 And it was a pleasant experience for me to work with them The one name that sticks out is R K Ghosh Steering Committee Chair He really steered the group with his past experience as Program Chair of ICDCIT 2004

Distributed Computing and Internet Technology Raja Natarajan, 2014-01-28 This book constitutes the refereed proceedings of the 10th International Conference on Distributed

Computing and Internet Technology ICDCIT 2014 held in Bhubaneswar India in February 2014 The 29 revised full papers presented together with 6 invited talks in this volume were carefully reviewed and selected from 197 submissions The papers cover topics such as distributed computing sensor networks Internet technologies and applications security and multimedia

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Artificial Intelligence and Sustainability Mohamed Ahmed Alloghani, 2023-11-25 This book gives readers the tools to craft AI systems that don't just thrive today but endure sustainably into the future Whether a trailblazer or an aspiring innovator this book enables readers to resonate with the ambitions of software developers data scientists and AI practitioners The author covers the latest techniques and best practices for energy efficiency reducing carbon footprints and ensuring fair and ethical AI The book also addresses important issues such as AI governance managing risks and ensuring transparency Topics covered include understanding the relationship between AI and sustainable development strategies for building efficient AI systems and ethical considerations in AI development among others The author includes case studies of companies and organizations that have successfully implemented sustainable AI software development practices Therefore this book will be of interest to AI practitioners academics researchers and lecturers in computer science artificial intelligence machine learning and data sciences

Artificial Intelligence Based Smart and Secured Applications Sridaran Rajagopal, Kalpesh Popat, Divyakant Meva, Sunil Bajaja, Pankaj Mudholkar, 2025-04-21 The six volume set CCIS 2424 2429 constitutes the refereed proceedings of the Third International Conference on Advances in Smart Computing and Information Security ASCIS 2024 held in Rajkot Gujarat India in October 16 18 2024 The 138 full papers and 43 short papers presented in these six volumes were carefully reviewed and selected from 667 submissions The papers presented in these six volumes are organized in the following topical sections Part I II III IV Artificial Intelligence Network and Cloud Computing Part VI Cyber Security Computer Application for Sustainability

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