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# Energy Aware Technique For Wireless Sensor Network

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# Energy Aware Technique For Wireless Sensor Network

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Mallaiah**

## **Energy Aware Technique For Wireless Sensor Network:**

**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 modes 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 SOM 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 out performs 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 batter 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 Energy Aware Technique For Wireless Sensor Network Balaji Kore,Rameshwar Murade,Abhijit Rajguru,2014-11-01 This book cover 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      **Sustainable Wireless Sensor Networks** Yen Kheng Tan, Winston Seah, 2010-12-14 Wireless Sensor Networks came into prominence around the start of this millennium motivated by the omnipresent scenario of small sized sensors with limited power deployed in large numbers over an area to monitor different phenomenon The sole motivation of a large portion of research efforts has been to maximize the lifetime of the network where network lifetime is typically measured from the instant of deployment to the point when one of the nodes has expended its limited power source and becomes in operational commonly referred as first node failure Over the years research has increasingly adopted ideas from wireless communications as well as embedded systems development in order to move this technology closer to realistic deployment scenarios In such a rich research area as wireless sensor networks it is difficult if not impossible to provide a comprehensive coverage of all relevant aspects In this book we hope to give the reader with a snapshot of some aspects of wireless sensor networks research that provides both a high level overview as well as detailed discussion on specific areas      *Energy Efficient Data Management Techniques in Wireless Sensor Networks*

Haiyang Liu, 2007      **Energy Aware Techniques for Certain Problems in Wireless Sensor Networks** ,2004 Recent years have witnessed a tremendous amount of research in the field of wireless sensor networks WSNs due to their numerous real world applications in environmental and habitat monitoring fire detection object tracking traffic controlling industrial and machine health control and monitoring enemy intrusion in military battlefields and so on However reducing energy consumption of individual sensors in such networks and obtaining the expected standard of quality in the solutions provided by them is a major challenge In this thesis we investigate several problems in WSNs particularly in the areas of broadcasting routing target monitoring self protecting networks and topology control with an emphasis on minimizing and balancing energy consumption among the sensors in such networks Several interesting theoretical results and bounds have been obtained for these problems which are further corroborated by extensive simulations of most of the algorithms These empirical results lead us to believe that the algorithms may be applied in real world situations where we can achieve a guarantee in the quality of solutions with a certain degree of balanced energy consumption among the sensors

**Network-integrated Sensing and Energy-aware Protocols in Wireless Body Area Networks** Muhannad Quwaider, 2010      *Algorithms and Protocols for Wireless Sensor Networks* Azzedine Boukerche, 2009 Boukerche is well known and established international researcher in the field of wireless mobile networks and distributed systems This is one of the first publications to focus on wireless ad hoc and sensor networks with a concentration on algorithms and protocols providing you with a comprehensive resource to learn about the continuous advances in wireless and mobile communications

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Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature      **Utilizing Game Theory for Energy-Aware Routing in Wireless Sensor Networks** A Santha Devi,2024-03-12  
In recent years an efficient design of a Wireless Sensor Network has become a leading area of research A Sensor is a device that responds and detects some type of input from both the physical or environmental conditions such as pressure heat light etc The output of the sensor is generally an electrical signal that is transmitted to a controller for further processing A Wireless sensor network can be defined as a network of devices that can communicate the information gathered from a monitored field through wireless links The data is forwarded through multiple nodes and with a gateway the data is connected to other networks like wireless Ethernet WSN is a wireless network that consists of base stations and numbers of nodes wireless sensors The more modern networks are bi directional also enabling control of sensor activity The development of wireless sensor networks was motivated by military application such as battlefield surveillance today such networks are used in many industrial and consumer applications such as industrial process monitoring and control machine health monitoring and so on The cost of sensor nodes is similarly variable ranging from a few to hundreds of dollars depending on the complexity of the individual sensor nodes Size and cost constraints on sensor nodes result in corresponding constraints on resources such as energy memory computational speed and communications bandwidth The topology of the WSNs can vary from a simple star network to an advanced multi hop wireless mesh network The propagation technique between the

## Whispering the Strategies of Language: An Mental Journey through **Energy Aware Technique For Wireless Sensor Network**

In a digitally-driven world wherever displays reign supreme and instant conversation drowns out the subtleties of language, the profound techniques and emotional nuances hidden within phrases often get unheard. Yet, located within the pages of **Energy Aware Technique For Wireless Sensor Network** a charming literary value pulsing with fresh thoughts, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, this wonderful opus encourages viewers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the very cloth of each and every word. Within the mental depths with this poignant evaluation, we will embark upon a heartfelt exploration of the book is primary styles, dissect its fascinating writing design, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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