

ABSTRACT

This project report, impact of wireless sensors based system for home energy consumption is written to serve as a reference book for wireless LAN in the future whenever it is desired. This report explains the survey consideration, hardware consideration, end-user consideration and principle of wireless network.

Wireless sensor networks (WSNs), as distributed networks of sensors with the ability to sense, process and communicate, have been increasingly used in various fields including engineering, health and environment, to intelligently monitor remote locations at low cost. Sensors (nodes) in such networks are responsible for four major tasks: data aggregation, sending and receiving data, and in-network data processing. This implies that they must effectively utilize their resources, including memory usage, CPU power and, more importantly, energy, to increase their lifetime and productivity. Besides harvesting energy, increasing the lifetime of sensors in the network by decreasing their energy consumption has become one of the main challenges of using WSNs in practical applications. In response to this challenge, over the last few years there have been increasing efforts to minimize energy consumption via new algorithms and techniques in different layers of the WSN, including the hardware layer (i.e., sensing, processing, transmission), network layer (i.e., protocols, routing) and application layer; most of these efforts have focused on specific and separate components of energy dissipation in WSNs. Due to the high integration of these components within a WSN, and therefore their interplay, each component cannot be treated independently without regard for other components; in other words, optimizing the energy consumption of one component, e.g. MAC protocols, may increase the energy requirements of other components, such as routing. Therefore, minimizing energy in one component may not guarantee optimization of the overall energy usage of the network.

LIST OF TABLE AND FIGURE

1 TABLE 1: Project Standard and Specification.

2 FIGURE 1: Wireless Network Consisting of Stand Alone Access Points.

3 FIGURE 2: Centrally Controlled Wireless Network.

IMPACT OF WIRELESS SENSORS BASED SYSTEM FOR HOME ENERGY CONSUMPTION

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