Abstract

A Wireless body area network (WBAN) consists of communication technology, sensors technology, a middleware and end user applications has emerged as a technology targeted at monitoring physiological and ambient conditions surrounding human beings and animals. Use of middleware enhances the power of BAN which handles the dynamic changes very smoothly. It also provides scalability to the system. This paper outlines the implementation of an energy efficient routing of data at middleware for the WBAN using the methodology of dynamic binding of data at the time of broadcasting it. A middleware is presented which handles the communication protocol according to the needs of various applications connected to it. A simulated environment is constructed for communications, sensors, middleware and applications to demonstrate feasibility of the system.

References


Index Terms

Computer Science Networks
Keywords

Body Area Network; Wireless Sensor Networks; Middleware; Health Care.