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Wireless Body Area Network Enabled Advancement in Bluetooth and ZigBee



Dr. Suresh Ghatole

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Mayank Namdev

Wireless Body Area Network (WBAN) is a new trend in the technology that provides remote mechanism to monitor and collect patient's health record data using wearable sensors. It is widely recognized that a high level of system security and privacy play a key role in protecting these data when being used by the healthcare professionals and during storage to ensure that patient's records are kept safe from intruder's danger. It is therefore of great interest to discuss security and privacy issues in WBANs. In this paper, we reviewed WBAN communication architecture, security and privacy requirements and security threats and the primary challenges i...

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Wireless Body Area Network or WBAN is an eyeopener revolution in technological development of E-Health domain that offers the remote mechanism to doctors(or physicians), so they can monitor and collect patient's health related data using wearable sensors. We know that a high degree of system security and privacy plays a major role in protecting this valuable data of patient especially when being used by the health professionals. So, while storage of this data health professionals must have to provide guarantee that the health related data of patient will be kept confidential from intruder or attacker's access. So, it is therefore of great interest to discuss...

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The rapid growth of wireless technologies and personal area networks has enabled the continuous healthcare monitoring of mobile patients using compact sensors that collect and evaluate body parameters and movements. These sensors constitute a body area network (BAN) where patients' vital signs are collected and reported wirelessly to a base station. Once the data is received, it is displayed or stored in a database for future use. The use of BANs is to provide the users with logging of patients' critical vital signs, and also to provide primary healthcare providers a snapshot of the wearer's health. The goal of this project was to investigate the feasibility of th...

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Wireless Body Area Network (WBAN) refers to short-range, wireless communications near or inside a human body. WBAN is emerging solution to cater the needs of local and remote health care related facility. Medical and non-medical applications have been revolutionarily under consideration for providing a healthy and gratify service to the humanity. This article addresses the security issues and requirements in WEBANs.

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The increasing use of wireless networks and the constant miniaturization of electrical devices has empowered the development of Wireless Body Area Networks . Wireless Body Area Network is a system of devices in close proximity to a person's body that cooperate for the benefit of the user where various sensors are attached on clothing or on the body or even implanted under the skin. This paper shows several uses of the BAN technology and the most obvious application of a BAN is in the medical sector, however there are also more recreational uses to BANs. Using a WBAN, the patient experiences a greater physical mobility and is no longer compelled to stay in...

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In recent year, the increasing number of wearable sensors on human can serve for many purposes like emergency care, health care remote monitoring, personal entertainment and communication etc. The healthcare application is used for 24 hours constant monitoring without disturbing day to day activities. The WBAN enables the medical applications to be developed using electronic devices and sensors. The WBAN is created by wearing small sensors on the human body. In this paper we propose a low cost and high quality electro cardiography and diagnostic system for healthcare applications. A major issue is how to preserve security and...

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