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### **RESEARCH ARTICLE**

# Wireless Body Area Sensor System for Monitoring Physical Activities Using GUI

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#### **Abstract**

Wireless Sensor Networks (WSNs) technologies are considered as one of the key of the research areas in computer science and healthcare application industries. Sensor supply chain and communication technologies used within the system and power consumption therein, depend largely on the use case and the characteristics of the application. Recent technological advances in sensors, low power integrated circuits, and wireless communications have enabled the design of low-cost, miniature, lightweight, intelligent physiological sensor platforms that can be seamlessly integrated into a body area network for health monitoring. Wireless body area networks (WBANs) promise unobtrusive ambulatory health monitoring for extended periods of time and near real-time updates of patients' medical records through the Internet. We designed the user interface to both address the needs of the research prototype WBAN and support a deployed WBAN system. The user interface must provide seamless control of the WBAN, implementing all the necessary control over the WBAN. Authors conclude that Life-saving applications and thorough studies and tests should be conducted before WBANs can be widely applied to humans, particularly to address the challenges related to robust techniques for detection and classification to increase the accuracy and hence the confidence of applying such techniques without physician intervention.

**Keywords:** Wireless body area sensor network, physiological sensing, data preprocessing, wireless sensor communications, Activity Monitors, Sensors.

Full Text: <http://www.ijcsmc.com/docs/papers/January2014/V3I1201460.pdf>