

Foreword and Editorial

International Journal of Wearable Device

We are very happy to publish this issue of an International Journal of Wearable Device by Global Vision Press.

This issue contains 2 articles. Achieving such a high quality of papers would have been impossible without the huge work that was undertaken by the Editorial Board members and External Reviewers. We take this opportunity to thank them for their great support and cooperation.

In the paper entitled “Real-Time Health Monitoring System with Hybrid Wearable Suit”, this paper is aimed to use new technology for monitoring the real time physiological parameter. Sensor network, while born on other application, are the main component of our wearable suit, which is the key step for the smart healthcare. In our research, our main focus is on real time and continuous monitoring of particular person. In biomedical science data monitoring of a subject (person) is very important for which experimental results suggest a physical powerful potential for sensor network due to the low cost and adhoc use of these sensors. The wearable suit will not only to improve the health monitoring but also it will help in disaster sites to find out the victims. We predict that our wearable suit will help greatly to improve the quality of rescue operation, health monitoring and life of a person.

“Wireless Sensor Network based Structural Health Monitoring Expert System”, structural Health Monitoring (SHM) is a process of detecting damages in Engineering structures in order to reduce the frequency of collapse of buildings. In this work, an expert system was incorporated to SHM for monitoring residential buildings. The developed system used a Wireless Sensor Network (WSN) based on 2.4GHz Radio Frequency (RF) band. The developed expert system is based on fuzzy inference and decision-making process also based on British Standard (BS): 7385 – Evaluation and measurement for vibration in building and BS 13670:2009. From performance evaluation result, the system’s reliability was calculated to be decreasing from 99% to 50% over a space of 100 years. Energy utilization result showed that the system has the capability to operate with 30% of its energy saved, thereby working for longer hours. The developed system showed a remarkable level of reliability and the energy saving capability is good. Hence, the system is adequate for SHM.

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**Editors of the November Issue on
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