

Title: A Ubiquitous RFID based Telemedicine System for localizing Elderly Patients with Alzheimer's

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By 2020, it is predicted that chronic diseases to be account for almost three quarters of all deaths. This aging problem contributes greatly to chronic diseases like Alzheimer's. The major implications of Alzheimer are patient safety and care. The aim of this paper is to develop a Telemedicine system, based on Internet of Things (IoT) technology, for monitoring elderly individuals suffering from Alzheimer's. We describe a working prototype that is able to capture vital signs and deliver the desired data remotely for elderly staying at home, using wearable ECG wireless sensor. In addition, an Active wearable Radio Frequency Identification (RFID) wristband, with IR room locators are used to monitor the whereabouts of the elderly at room level along with an Android APP tool used by the Elderly loved ones to locate him/her in case of emergency in a smart home context. An alarm is trigerred in case the Elderly wanders outside the safe zone.

Biography

Completed PHd in Embedded Systems from School Of Electronics University Bradford UK, 2005. Currently he is the Head RFID Lab & Lecturer in KFUPM, He was involved in a number of Funded projects in Telemedicine for Elderly.

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