Abstract

Recently, remote monitoring systems have evolved to respond for particular needs in healthcare sector, which is an essential pillar in the modern concept of smart city, we propose a smart system to monitor patient current health conditions, as a smart healthcare system based on the widely spread available technologies; namely, GSM and GPS. Statistics shows that hypertensive heart disease and blood pressure are risk factors for high death rate to decrease it a preventive measures should be applied providing a real-time health monitoring system, to save patients life at acceptable time. The objectives of this paper is to provide an effective system model, that will track, trace, and monitor patient vital readings in order to provide efficient medical services in time. By using sensors, the data will be captured and compared with a predefined threshold. The study focuses on heartbeat rate, and body temperature, thus in case of emergency an SMS will be sent to the Doctors mobile containing measured values and position. Moreover, the paper demonstrates the possibility of building a complete end-to-end smart healthcare monitoring system by using wide range of available sensors for more vital
human health parameters to connect patient with doctors in cases of emergency.

References


Index Terms

Computer Science Wireless

Keywords

Smart Healthcare, Sensors, Smart City, Embedded Systems, Monitoring.