Abstract

In recent time’s healthcare is gaining importance and technology is playing an important role in patient’s health monitoring. Health monitoring deals with monitoring various parameters of patient’s continuously over a period of time. Sensors are used for monitoring parameters which in turn sends the output to a central unit for further data processing. A patient’s health monitoring device based on FPGA has been developed for monitoring parameters such as heartbeat, temperature and motion. FPGA has been used here instead of microcontroller as it is reconfigurable and necessary hardware can be added as and when required. The graphical user interface (GUI) is developed using visual basic and the data received from these sensors is forwarded to GUI. When the parameters are above the threshold value, email, message will be sent directly to the doctor for remote monitoring. As a first aid to the patient the doctor can reply by prescribing the necessary medicine which the patient can consume after making use of switch button available on the graphical user interface. Android application shows the patients data in real time to the doctor at remote location.
References


Index Terms

Computer Science

Biomedical

Keywords

Temperature sensor, accelerometer, heartbeat sensor, database