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(57) Abstract :

In this paper, a new method for the detection of body motion and Heart beat monitoring using MEMS sensors. Whenever the body motion of the person is detected the information is given to the care taker to safeguard the elderly peoples. Here we are using the combinational integrated sensor system with . MEMS sensors to sense the heart rate and the variation in the heart rate to give the exact result. The entire system is embedded into a small unit which is synchronizing with the mobile device of the care taker which indicates them that the elderly person is in the normal or abnormal condition. The indication will be indicated through the IP-address of the device. Here we are using the QRS complex detection algorithm which is used to identify the different condition of the heart functioning. Here we are designing and simulating the motion detecting of the elderly peoples using the Arduino software and the proteus software. Keywords: wearable sensor, MEMS Sensor, home healthcare, integrated sensors system, RR interval, cc3200, Arduino software.

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