

Real time activity and behaviour monitoring ^{*}

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Abstract

Human activity and behaviour monitoring is an increasing research area. This topic is particularly important when we observe elderly people. Most analysis techniques are based on the measurement of the acceleration variation. Therefore, one or more little devices with an accelerometer are attached to the body of the observed patient. In previous solutions the role of the body-attached devices is only to acquire information, and the data processing will be offline.

In this article we present our solution for this task which combines DSP and parallel programming.

Keywords: raspberry pi, dsp, accelerometer

MSC: 92C50

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