Abstract

This paper describes system for monitoring and fall controlling of infants using tri-axial accelerometer together with ARM7 microcontroller used as a processing system to prevent fall of infants. The system is composed of data acquisition, fall controlling and monitoring and processing unit for analysis. Tri-axial accelerometer is used for human position tracking and fall detection. The system is capable of monitoring infants in real time and the obtained calibrated results are taken into consideration. The system including operation of accelerometer and the processing unit is explained in detail.

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Index Terms

Computer Science

Electronics

Keywords

Monitor and fall control  data acquisition  DC (Duty Cycle)  RS (Region Select)  B (Buzzer bit).