**Some Existing Fall Detection Systems**

**Commercial**

Philips Lifeline

Neck or wrist worn, help button with fall detection contacting central services which then contacts notified list and then possibly emergency services

Chubb Verso Fall Detector

Neck worn device with call button. Alarms when put 70degrees or greater from vertical. If returned to upright position alarm ceases, else, after predefined time call center notified.

Other solutions available more centred on care home environment which alarm when moved away from vertical. Some connect over radio to base stations.

**Developmental/Research Projects**

**WIISEL**

Wireless insole system

Communicates via Bluetooth with mobile phone, and thus with outside world

Multiple sensors, capable of gait analysis (performed offline) and thus fall prevention, as well as fall detection (dependent of connection to phone)

**Gasparrini et all**

Depth-Based Fall Detection System Using a Kinect Sensor

One or more subjects

Uses raw depth data rather than skeleton tracking from libraries

Overhead view

Real time on windows pc 320 x 240 reso

**Stone**

PC + Kinect. Microsoft Kinect SDK

Depth data

offline