

## Hardware and Data Preprocessing ch:Hardware

As aforementioned, we used a MIMU (GaitWatch) and a force plate (Zebris FDM-S) to gather the raw gait data. In this chapter we will describe the employed hardware in detail. Subsequently, we will elaborate on the necessary synchronisation of both systems.

### GaitWatch

The GaitWatch device *olivares\_vicente\_gaitwatch2013* is designed to monitor the motion of patients by means of inertial sensors. It was developed at the *Maximilians University in Munich* in conjunction with the Department of Signal Theory, Telematics and Communication.

figure file=images/GaitWatch\_placement, width = 9cm Placement of GaitWatch components at the body *olivares\_vicente*