

## Sheet1

Name	Brief Explanation
Thresholding	acceleration magnitude is monitored for the passing of certain values \cite{Davidson2017,Harle2013}. Typically determines when foot is on the floor \cite{Harle2013}, but has also been applied to pitch angle of upper leg, where the sensor then has to be placed \cite{Diaz2014a}.
Zero Crossing	acceleration magnitude is monitored for sign changes \cite{Davidson2017}. Exploit the period in which the foot impacts on the floor, during which clear vertical acceleration peaks can be perceived.
Peak Detection	recognize local maximum or minimum within a sliding window \cite{Susi2013}

Advantage

Disadvantage

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\begin{itemize}
  \item ability to use the
norm of IMU signals, making it
robust to sensor orientation \
cite{Davidson2017}.
\end{itemize}
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