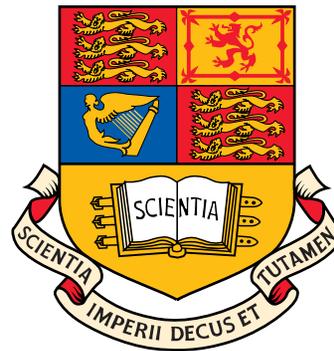

Recording ECG from limbs

Danilo Mandic,
room 813, ext: 46271



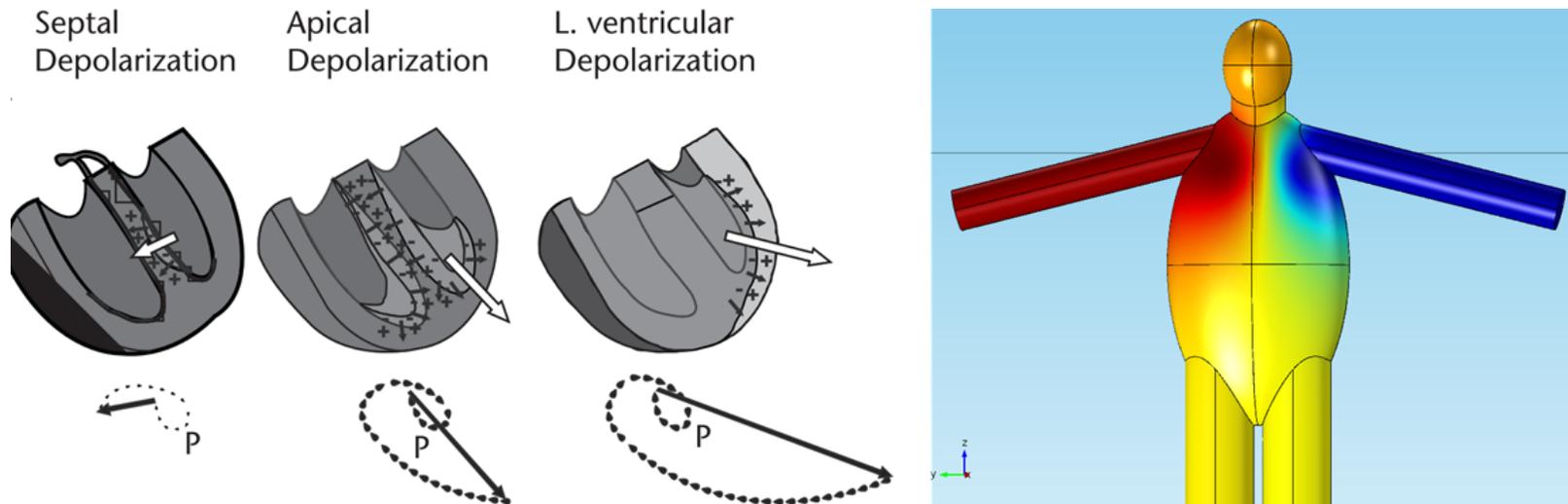
Department of Electrical and Electronic Engineering
Imperial College London, UK

d.mandic@imperial.ac.uk, URL: www.commsp.ee.ic.ac.uk/~mandic

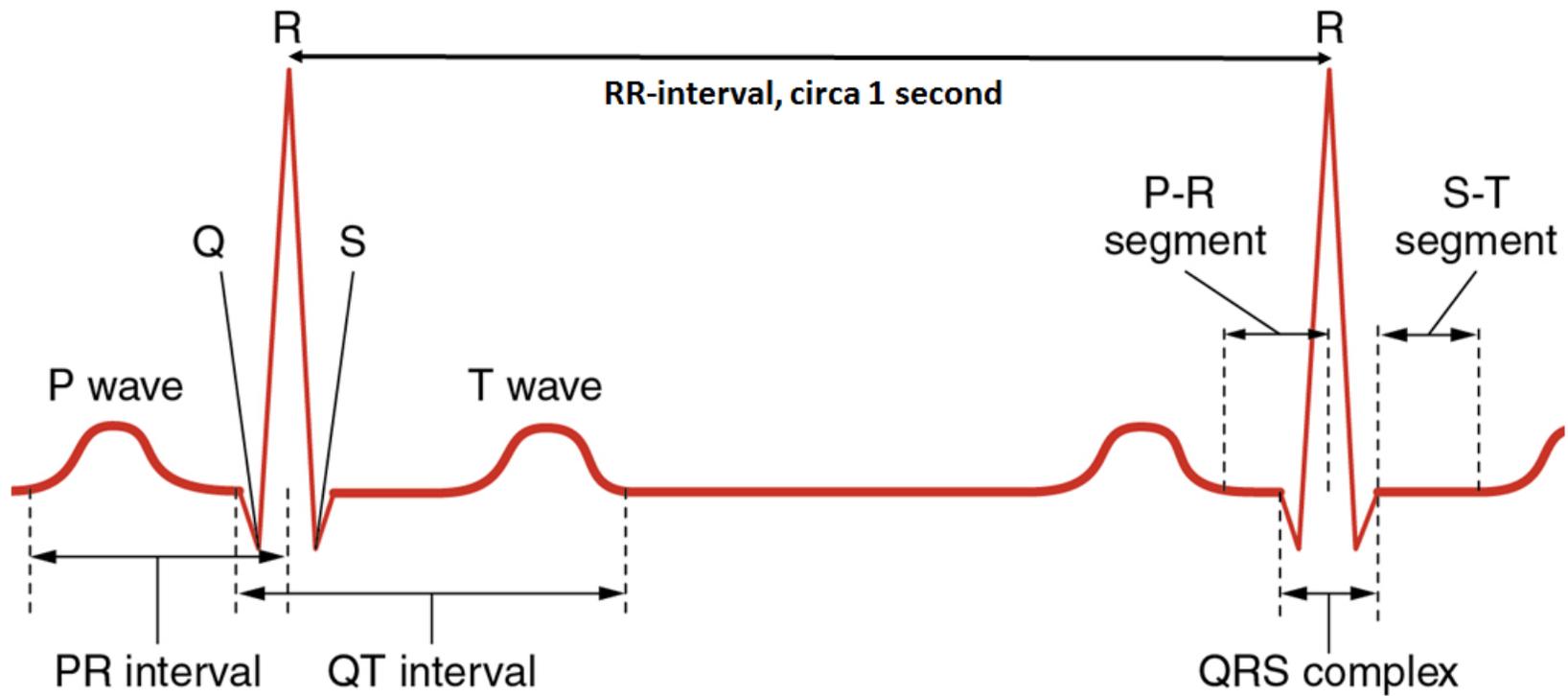
Recording ECG from limbs

Generation of ECG

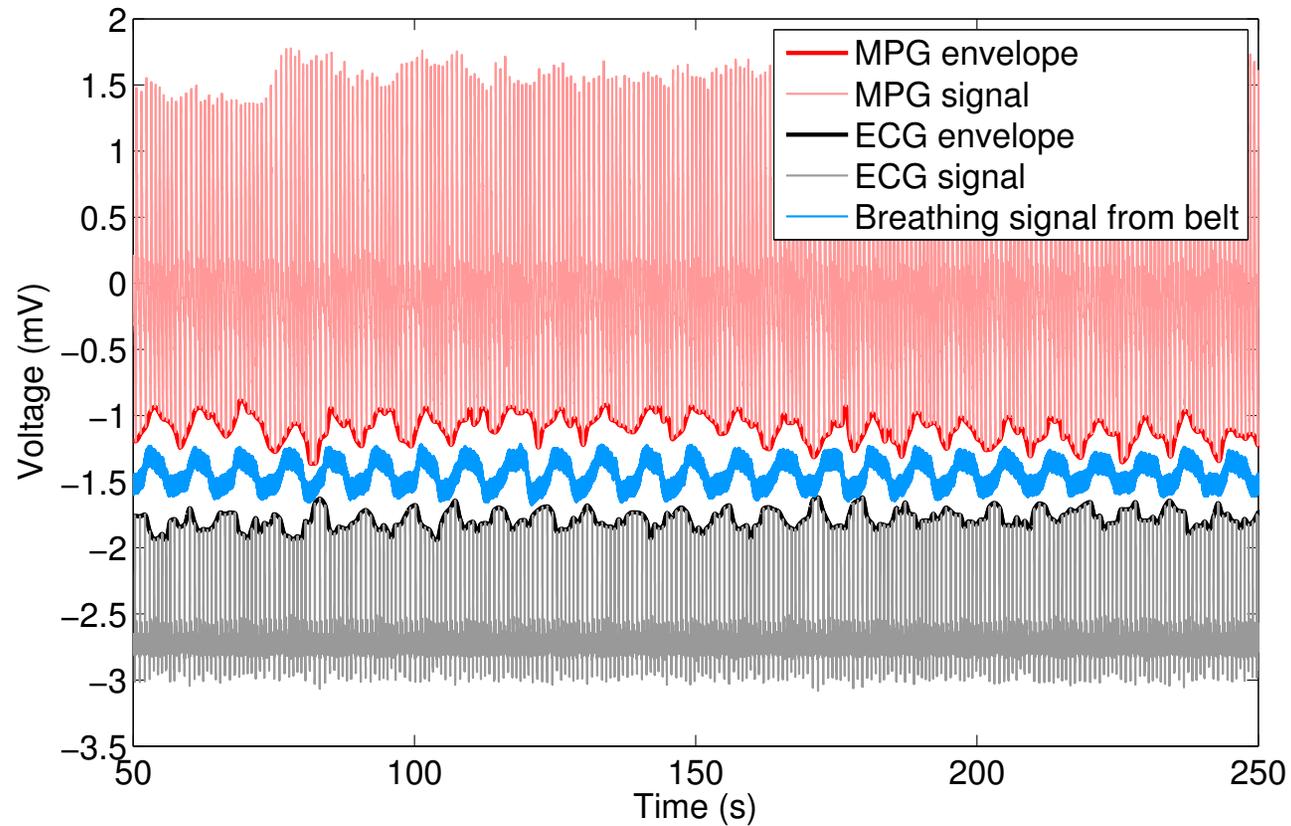
Physiological origin: Propagation of charges within the heart



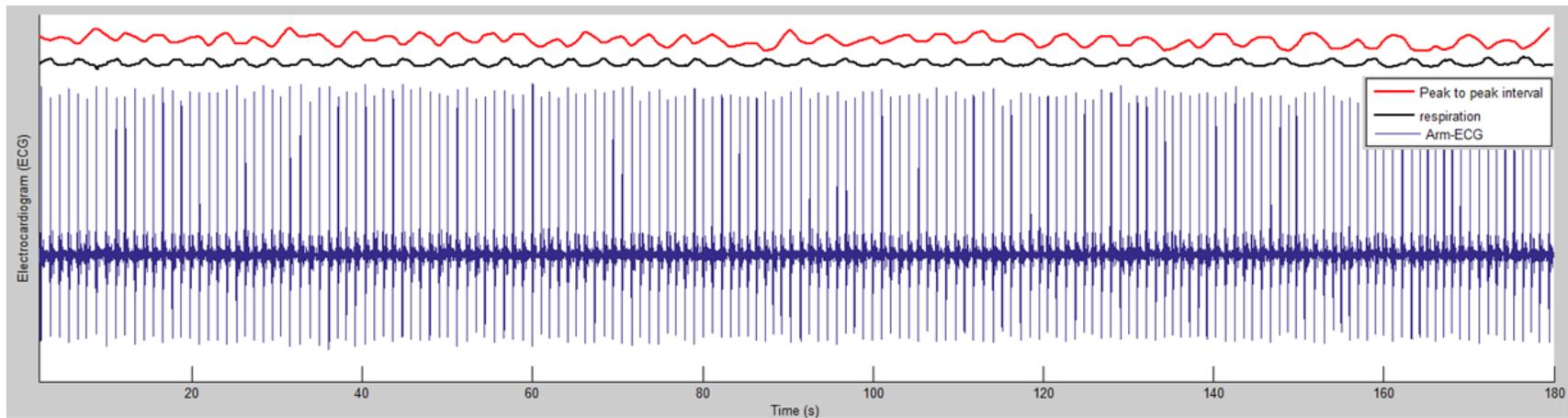
ECG cycle and RR-interval



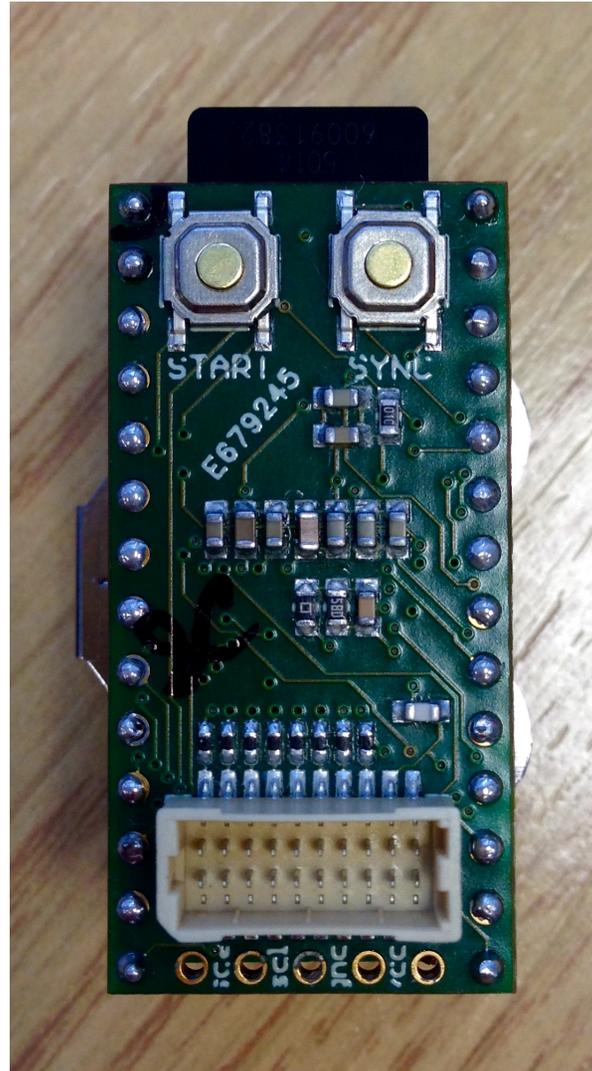
Breathing Envelope



Breathing Envelope



iAmp Device



Placing the electrodes and recording the signal

1. Place two electrodes on your right arm and one electrode in your left arm
2. Connect the **Black** and **White** cables to your **Right arm** and the **Red cable** to your **Left arm**.
3. To record switch on the iAmp (orange LED lights up) and press the start button (LED flashes at a high frequency);
4. To stop the recording, press start again