

Assignment 4 – Mini Project : Gesture Recognition using Sliding window

1. A short description describe what are the features you use in your algorithm and why you choose them

To be able to recognize a gesture, I am retrieving the maximum value (absolute maximum value of the signals) for the corresponding axis for the gesture recognition for each window. I retrieve the absolute maximum value because the values could be negative. Therefore if one value is over the threshold defined for a specific gesture, I identify whether the maximum was positive or negative to be able to define the direction of the gesture (i.e. clockwise or counterclockwise).

1. YouTube Links

1. Video demo of the gesture recognition for all 6 gestures: <https://youtu.be/MvBoSU1Wgh4>
2. Video demo of visualization of 6 axis sensor data without filter and with filter: <https://youtu.be/DNcQzDf48cw>