Abstract

There are several methods available for EMG (Electromyography) based user intent detection,
wherein muscle activation has been recognized by different approaches. Even though EMG detection and processing has been done by many other researchers, need of improved model is still rising. The notion of this study is to propound a novel approach whereby quantification of EMG signal for foot flexion can be done. Signal processing and data analysis, played substantial role in that, thus present study had used contemporary frequency analysis methodology. The Biopac’s software tool, Acqknowledge, was explored for the purpose and the results obtained were quite precise. Further to increase its reliability, analysis was performed over data samples of more than 10 subjects.

References


Index Terms
Keywords
Emg(electromyography) Frequency Analysis Foot Flexion Mean Frequency Muscle Activation.