



FAST ***SEMG***

Data Management System

User Manual

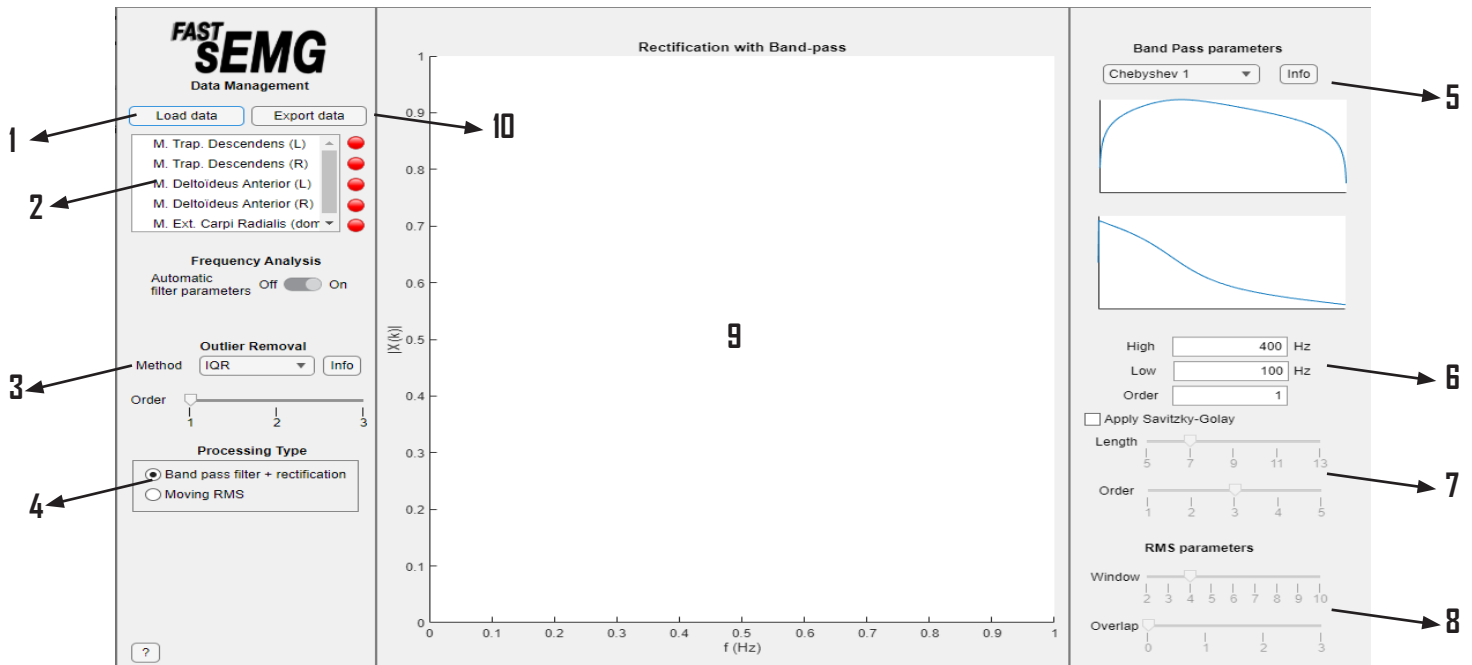
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Introduction

This document gives an overview of the functionality and features in the Fast sEMG application developed by Louis de Looze and Alexander Michielsen.

This software is developed for processing sEMG data signals in order to extract useful data in the frequency domain.

Getting Started



1. Load in the data set

2. Choose the channel you want to process (Note: It is possible to load multiple channels and switch between them on the fly!)

3. Choose an outlier removal method. The 'info' button gives a description about every method

4. Choose your processing track (Band pass filter + rectification or Moving RMS)

If you chose 'Moving RMS', jump to step 8

5. Choose the filter you want to use (or none)

The two plots on the side show the filter's amplitude and phase characteristics for the current frequency range
The 'info' button gives a description about every filter

6. Choose a low and high cut-off frequency together with the filter's order

7. (Optional) Apply a Savitzky-Golay smoothing filter on your data and choose its parameters

Jump to step 9

8. Choose parameters for the Moving RMS window

9. Admire the result on the plot

10. Export your data to a directory of choice