Task 8

Development of a graphical user interface in the MATLAB environment for arbitrary filtering of EEG signals using FIR spectral filters

1   Instructions

For the assignment, you must also write a report of at least one A4 page in .pdf format. The report should follow the standard form of the expert report in the IMRD (Introduction, Methods, Results, Discussion) form.

When you have completed the task, submit one .zip file containing:

- program code,

- report in .pdf file.

2   Description of seminar task

Develop a graphical user interface (in MATLAB) for arbitrary filtering of EEG signals using FIR spectral filters. The interactive interface should allow displaying of original signals, filtering of selected signals using any high, low, bandpass, or bandstop filter, and displaying of filtered signals. The interface should also allow to store the filtered signals in the same (.edf) format.