Evan Fox
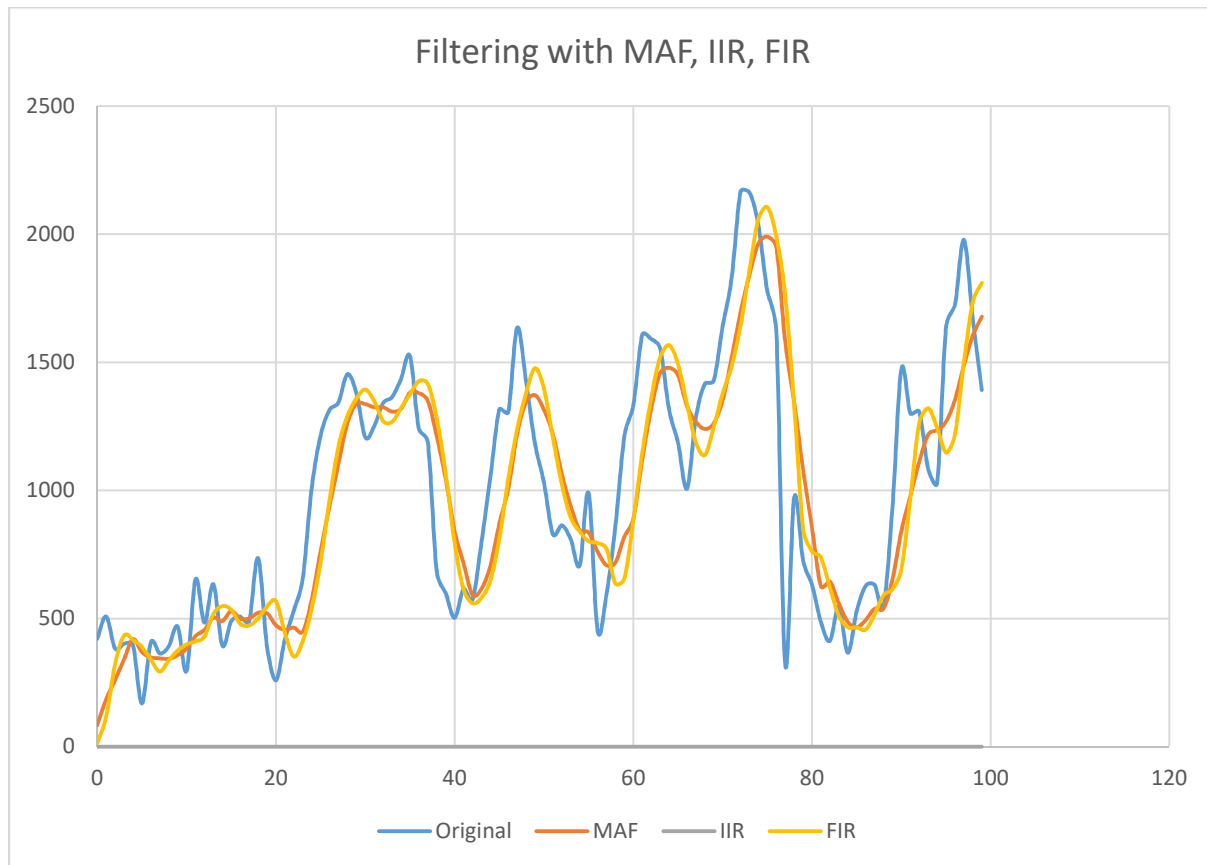ME433 - Marchuk
5/12/2018

HW10:

Filtering with MAF, IIR, FIR

I was unable to get the IIR filter to work and after some research thought it was not the best filter. Although it requires more calculations, I believe the **FIR filter worked best** at removing small bits of noise, while maintaining the original data. The FIR values were selected via the matlab function fir1(4,0.1) since we will use 5 samples and target a cutoff frequency of 5Hz, which is $1/10^{th}$ of half the data collection frequency of 100Hz. The weights for the FIR filter were:

0.0338   0.2401   0.4521   0.2401   0.0338