

Stochastic Processes

Final Project



5th Order Wiener Filter

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Problem

For a given ECG signal we need to implement a 5th order wiener filter

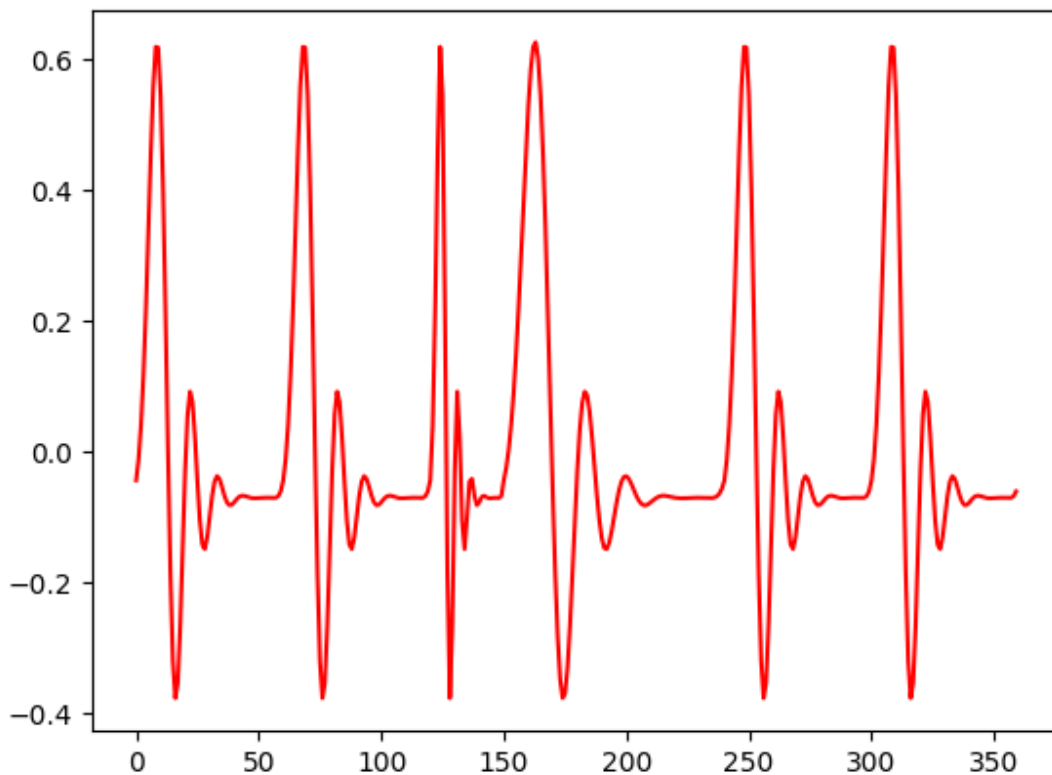
The data contain 2 ECG signals one distorted and one original

Implementation

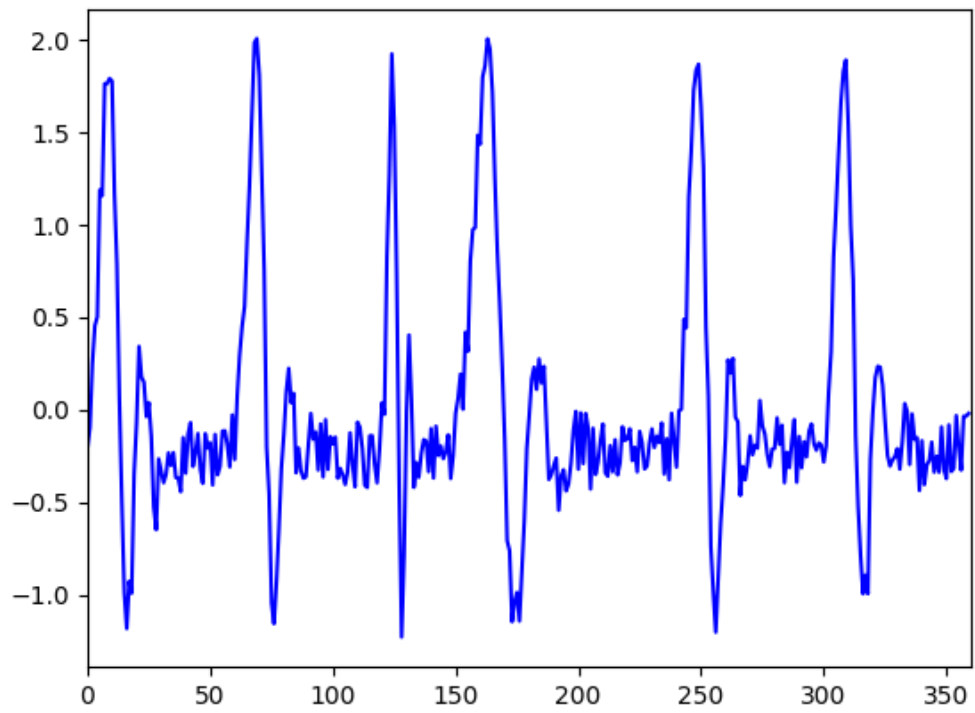
- Reading the 2 signals the distorted and the original
- Applying the filter on the distorted signal
- Calculating the mean squared error

Output

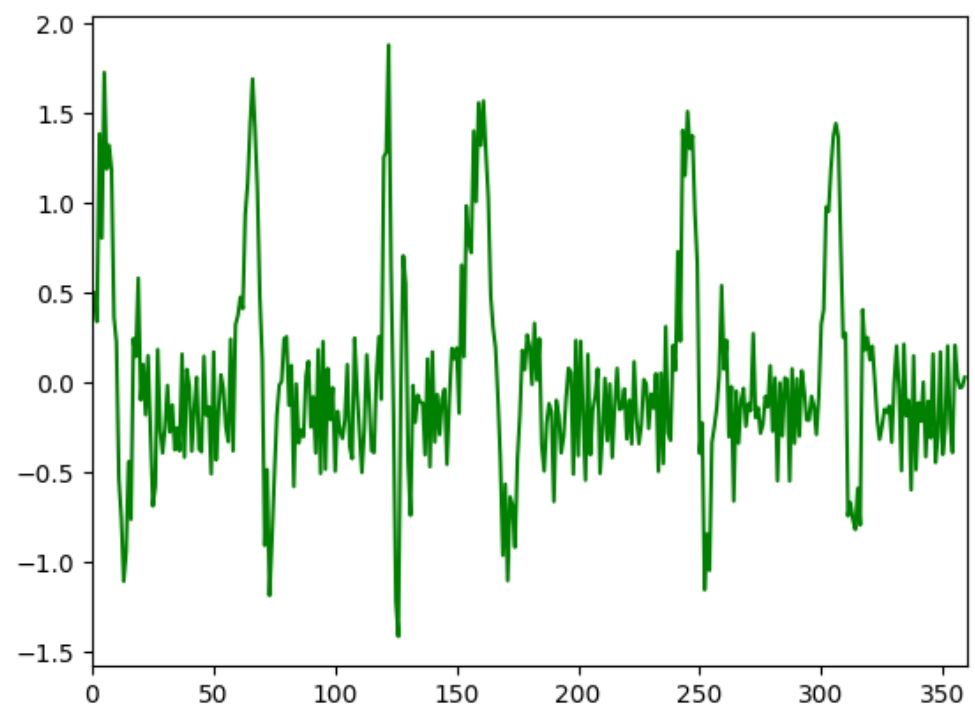
Original



Distorted:



Filtered:



Filtered and Distorted:

