

ECG biomedical signal processing



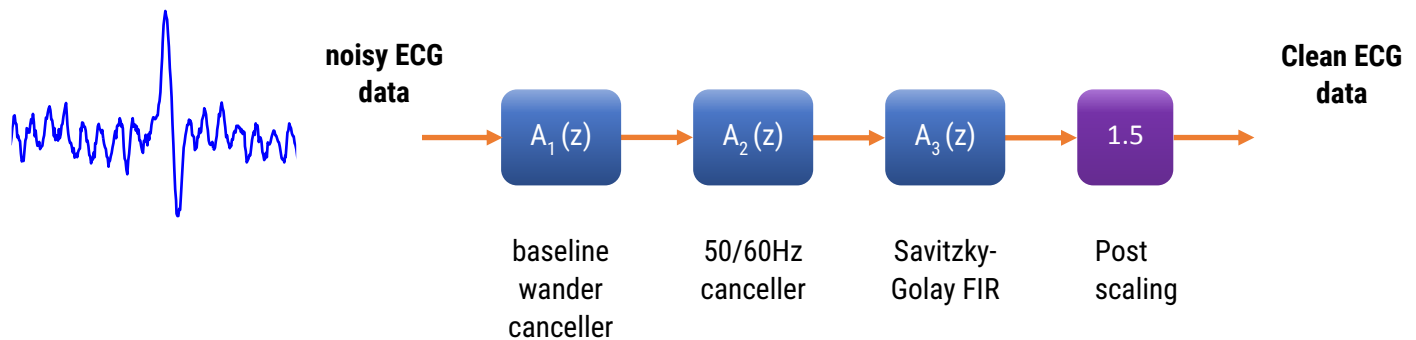
HIGHLIGHTS

- ▶ Complete front-end ECG filtering solution
- ▶ Baseline wander canceller
- ▶ 50/60Hz powerline interference canceller
- ▶ Savitzky-Golay lowpass filter
- ▶ Measurement noise reduction
- ▶ Peak sharpness preservation
- ▶ Export design to Matlab, C and more

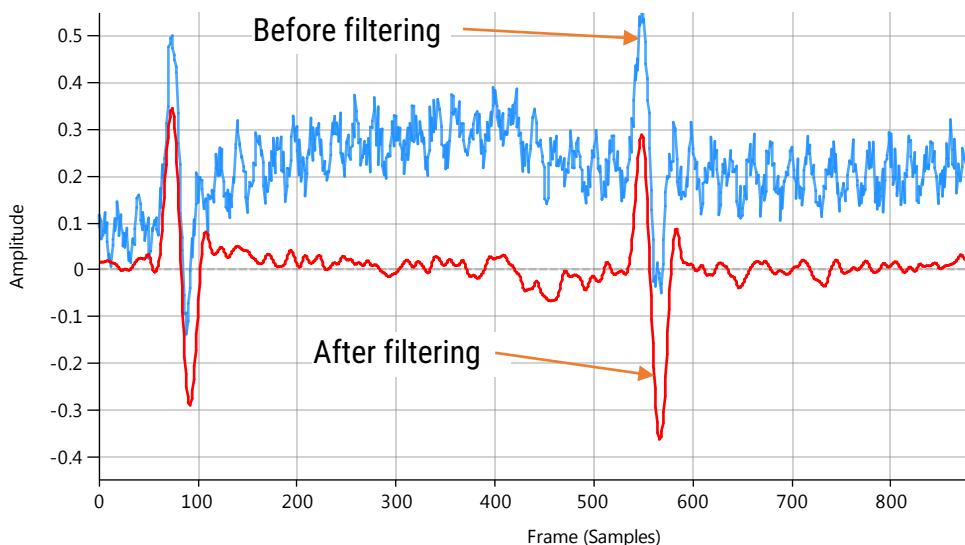
DESCRIPTION

ASN Filter designer's ECG biomedical reference design provides designers with a complete front-end filtering solution for ECG measurement applications. Simply import your datasets into the tool and interactively fine-tune the filter cascade cut-off frequencies in real-time with ASN FilterScript in order to suit your application requirements. Advanced Savitzky-Golay FIR lowpass filtering minimises the effects of measurement noise while preserving the sharpness of the peaks.

REFERENCE DESIGN IP BLOCKS

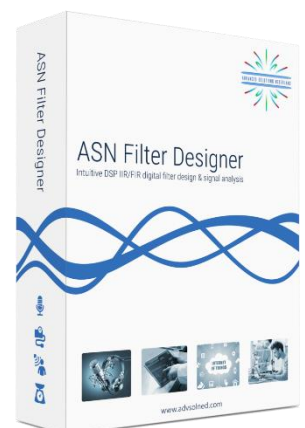


TYPICAL FILTERING RESULT



APPLICATIONS

- ▶ Sports & Fitness (heart rate)
- ▶ Patient vital sign monitoring
- ▶ Biomedical research



Download a free demo: www.advsolned.com/asn_filter_designer.html

EMG biomedical signal processing



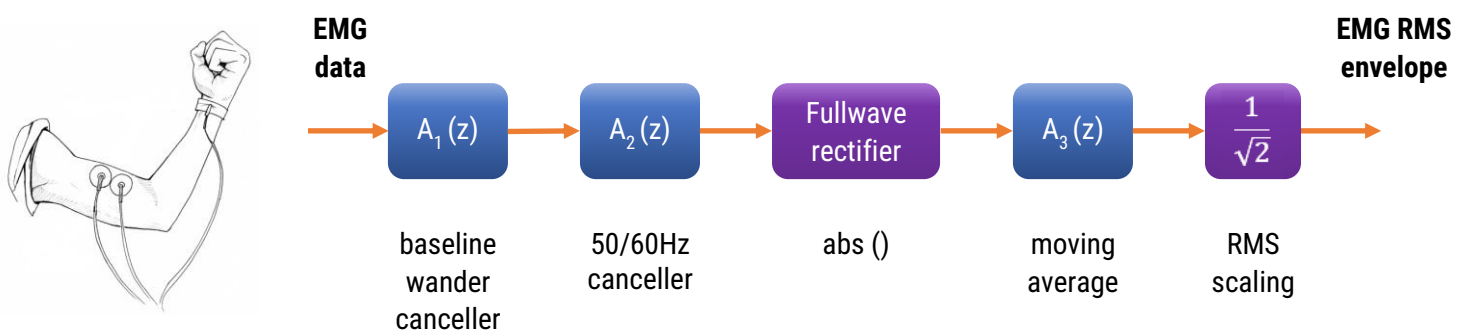
HIGHLIGHTS

- ▶ Complete filtering solution for EMG RMS envelope measurement (filters, fullwave rectifier and scaling)
- ▶ Baseline wander canceller
- ▶ 50/60Hz powerline interference canceller
- ▶ Export design to Matlab, C and more

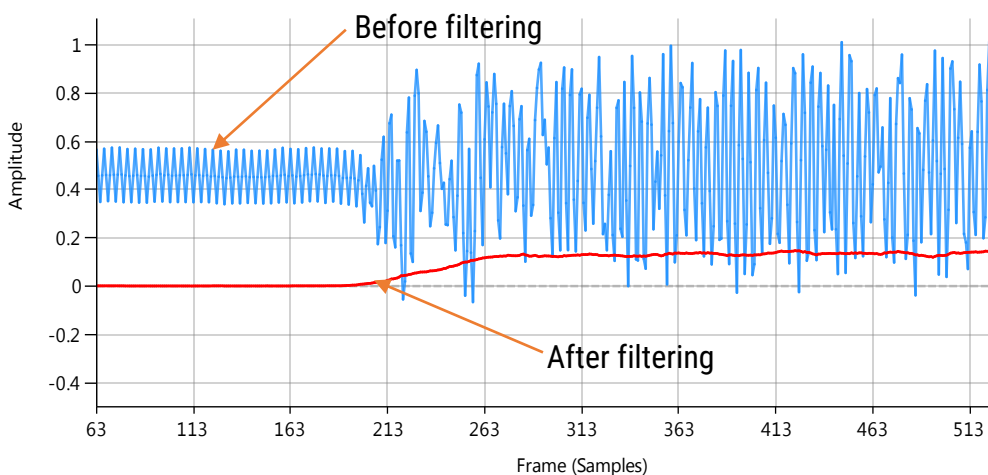
DESCRIPTION

ASN Filter designer's EMG biomedical reference design provides designers with a complete front-end filtering solution for EMG RMS envelope measurement applications. Simply import your datasets into the tool and interactively fine-tune the filter cascade cut-off frequencies in real-time with ASN FilterScript in order to suit your application requirements. Fullwave rectification and scaling are integrated in the filter cascade for direct RMS envelope amplitude measurement.

REFERENCE DESIGN IP BLOCKS



TYPICAL FILTERING RESULT



APPLICATIONS

- ▶ Gesture MMI control
- ▶ Robotics & automation
- ▶ Biomechanics research

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