Design and Implementation of Digital Chebyshev Type I filter using XSG for Noise Reduction in ECG Signal

Abstract

This paper, depict the use of Chebyshev type I filter for noise reduction in ECG Signal. The filter is designed using FDA Tool of Matlab and then filter coefficients of realized filter are used for implementation of the filter on XSG. Simulation results show the filter works effectively for denoising the biomedical signal. The designed filter is efficient as per area, computational complexity and power.

References

8. Mahesh S. Chavan,, RA.Agarwala,M.D.Uplane “Application of the Chebyshev Type II Digital Filter for Noise Reduction in ECG Signal” proceedings of the 5th WSEAS Int. Conf. on Signal Processing, Computational Geometry & Artificial Vision, Malta, September 15-17, 2005 (pp1-8)

Index Terms

Computer Science       Signal Processing

Keywords

XSG, Chebyshev Filter, Noise Reduction