Abstract

Baseline wander (BW) is a low frequency artifact in biomedical electronic recordings. It is usually caused by patient’s respiration or movement of equipments. The removal of this artifact is important in ECG recordings for reliable visual interpretation. This paper presents the implementation of Empirical Mode Decomposition (EMD), Ensemble Empirical Mode Decomposition (EEMD) and EMD based method to remove this disturbance. The EMD based technique serves as an efficient method to remove baseline wander with minimum signal distortion. The results highlights the main differences among all different methods and also show that the EMD based technique is able to remove best baseline wander.

References

Comparison of Some EMD based Technique for Baseline Wander Correction in Fetal ECG Signal

- physionet.org/cgi-bin/atm/ATM

Index Terms

Computer Science  Signal Processing

Keywords

Baseline wander  Empirical Mode Decomposition (EMD)  Ensemble Empirical Mode Decomposition (EEMD)