Abstract

Important methods concerning artifact removal from EEG signals has been briefly described pertaining to its significance and its drawbacks. Some methods described herein range from conventional methods such as linear filtering, Linear combination and regression (LCR) to more contemporary methods such as blind source separation (BSS) with applications such as Principal component analysis (PCA) and Independent component Analysis (ICA) including the more recent wavelet based transformation methods (such as Discrete Wavelet Transform and Wave Packet decomposition). It is observed that these methods complement each other in perspective of their drawbacks, therefore a novel combination in some of these methods
particularly the ICA and Wavelet based Transform results in a much better balance between statistical considerations, practicality and computational efficiency.

References

Index Terms

Computer Science

Signal Processing

Keywords

Linear Filtering  Lcr  Bss  Ica  Pca  Wavelet Based Transformation.