Abstract

In the present work the performance of orthogonal and Biorthogonal wavelet filters were analyzed for visual evoked potentials (VEP) on a variety of noisy signals. The signals were analyzed at different signal to noise ratio (SNR). This research proposed a method for the selection of the best analysis. The proposed method used longest common subsequence (LCS) and basic local alignment search tool (BLAST) to measure the analysis performance objectively and visual quality subjectively of the signal analysis. It was found that orthogonal wavelets outperform the biorthogonal ones in both the criteria especially at high noisy signal.
Orthogonal and Biorthogonal Wavelet Analysis of Visual Evoked Potentials


Index Terms

Computer Science     Image Processing

Keywords
Orthogonal and Biorthogonal Wavelet Analysis of Visual Evoked Potentials

Wavelet transforms  longest common subsequence  Basic Local Alignment Search Tool