Matching Pursuit algorithm for stationary wavelet transformation on EEG signals

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The Stationary Wavelet Transform (SWT) decomposition of signals is proposed in this paper. The Matching Pursuit (MP) algorithm offers an anti-interference of EEG signals. The Matching Pursuit (MP) algorithm investigates the weak signals from a noisy structure. It improves the efficiency of finding the frequency-time atoms and rapid noise rectification. The experiment results are investigated up to 100 iterations and reduction of noise in weak signals was consistently observed.

Keywords: signal processing; Matching Pursuit algorithm, wavelet transform, EEG signals

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