عنوان مقاله:

SUPPORT VECTOR MACHINES FOR PAIN DIAGNOSIS USING WAVELT COEFFICIENTS

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خلاصه مقاله:

Diagnosing pain mechanism would improve the clinical curing methods. Although different researches have been studied pain diagnosis, but consistent results are surprising. This study shows how EEG features reflects the pain different levels. The EEG signals are recorded during two conditions: a relax condition and pain condition. Wavelet coefficients which are consistent with dynamical characteristic of EEG signals, combined with statistical methods are used to reduce the features space. Support Vector Machines (SVM) are used to differentiate between pain and no-pain levels. This study confirms this hypothesis that the brain pattern varies during pain and as is shown that pain and no-pain (relax) condition differentiate very well.

کلمات کلیدی:
pain, no-pain, wavelet coefficients, SVM

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