Classification of EEG Signals Using SVM classifier for Screening Epilepsy Disorder

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ABSTRACT

Infection in human brain causes the brain disorder which is in the form of epilepsy. The infected areas in the brain region generate the irregular pattern signals as focal signals and the other healthy regions in the brain generates the regular pattern signals as non-focal signal. Hence, the detection of focal signals from the non-focal signals is an important for epileptic surgery in epilepsy patients. This paper proposes a simple and efficient methodology for EEG signals classifications using SVM classifier. The performance of the proposed EEG signals classification system is evaluated in terms of sensitivity, specificity and accuracy.