
Using of Time - Frequency Features to Detect Epileptic Disease on EEG and ECG Signals

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Epilepsy is a central nervous system disorder (neurological disorder) in which neuronal activity in the brain is impaired and leads to seizure, in which behavior, abnormal symptoms and symptoms such as loss of consciousness occur. So far, many methods have been proposed to diagnose epilepsy, but these investigations have usually led to less brain signals and less vital signals on the heart. This study was conducted for the first time using extracted brain and heart properties. In this study, using the characteristics obtained in the violin domain the vital brain and heart signals, and the categorization of these two categories of features to identify epilepsy disease. The results of the simulation of good performance demonstrate 94.33% of the patients diagnosed in the proposed method.

Keywords : vital brain signals, vital heart signals, epilepsy diagnosis.

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