

MNN Seminar January 23rd 2019 @ 15:00

ICT Informatics Lab (Level -1, Blk B, Rm 2)

Detection and Prediction of Epileptic Seizure from EEG Data

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Worldwide around 50 million people suffer from epilepsy, a neurological disorder, and experience involuntary recurrent seizures due to abnormal electrical activity in the brain. Early diagnosis of epileptic seizures is necessary for treatment to delay or prevent disease progression. Several studies have been carried out to explore the feasibility of a practical real-time epilepsy seizure detector and predictor. The aim of this talk is to present a novel method for the simple yet very effective data acquisition, feature extraction and feature space creation for epilepsy seizure detection and prediction. It not only makes the classifier's training phase faster but also significantly reduces the training time and memory and power requirements. This method is evaluated using the dataset that contains a high number of seizure instances, precisely a total of 192 seizures from a total of 22 paediatric patients.