

Data Mining Project Abstract

Team Leader:

Hitendra Singh (171210028)

Team Members:

- Hitendra Singh (171210028)
- Irshad Othayoth Kandy (171210029)

Abstract:

We intend to use the neural signals (recorded EEG signals) preceding movement and motor imagery to predict which of the two hand movements – left or right is about to occur, and to access this utility for brain-computer interface (BCI) applications.

Dataset Link:

- <http://www.bbc.de/competition/iv/#dataset1> : 64 EEG channels at 1000Hz sampling rate for 2 classes of left hand, right hand, foot (+ idle state) for 7 subjects. Evaluation data is continuous EEG which contains also periods of idle state.
- <http://gigadb.org/dataset/100295> : Includes 52 subjects (38 validated subjects with discriminative features), results of physiological and psychological questionnaires, EMG Datasets, location of 3D EEG electrodes, and EEGs for non-task related states