Automatic Analysis of EEGs Using Big Data and Hybrid Deep Learning Architectures

Pre-processing: Feature extraction.

Methods include temporal, spatial and spectral analysis.

* Wavelet transform
* Independent component analysis
* Autoregressive modeling
* Mel-frequency cepstral coefficients (MFCC)
* Linear frequency cepstral coefficients (LFCCs)

Sequential decoding using Hidden Markov Models (HMMs)