



Multi-Class Classification of EEG in a Brain-Computer Interface

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System components:

- EMOTIV EEG recording headset
- Unity user interface
- WebSockets protocol
- Cortex API
- MATLAB processing

A user's EEG brain activity in response to four types of visual directional cues is recorded with an experiment protocol and interface developed in Unity. Feature selection and classification is performed on the processed data and performance of the models is evaluated.

EMOTIV headset was used to record EEG, with WebSockets protocol and Cortex API used for communication between the Unity user interface and headset. MATLAB was used for data processing, analysis and classification.