



BCI – Control of Wheelchair

Background:

Electroencephalography (EEG) - is the recording of electrical activity across the scalp evoked by neural activity in the brain.

EEG recording done using special cap with embedded electrodes.

Sensory, cognitive and motor evoke characteristic EEG patterns and changes in EEG rhythms

Prerequisites:

- MAMAT - Introduction to software systems design
- MAVLAS - Digital signal processing
- Length: 2 semesters.

Project Description:

Different projects will focus on:

1. Single trial, real time, signal processing for detecting event related potentials.
2. Characterization of event-related potentials associated with task monitoring.
3. Actual implementation of BCI for controlling an external device.

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