

Resource Summary Report

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An efficient P300-based brain-computer interface for disabled subjects

RRID:SCR_001584

Type: Tool

Proper Citation

An efficient P300-based brain-computer interface for disabled subjects
(RRID:SCR_001584)

Resource Information

URL: https://www.epfl.ch/labs/mmspg/research/page-58317-en-html/bci-2/bci_datasets/

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Description: A portal containing EEG datasets (in MATLAB format) and the MATLAB software that were used to produce the results in the paper named in the title of this resource. The files published can also be used as a basis for individual research on P300-based brain-computer interfaces. The system is based on the P300 evoked potential and is tested with five severely disabled and four able-bodied subjects. For four of the disabled subjects classification accuracies of 100% are obtained. The bitrates obtained for the disabled subjects range between 10 and 25 bits/min. The effect of different electrode configurations and machine learning algorithms on classification accuracy is tested.

Resource Type: source code, data set, data or information resource, software resource

Defining Citation: [PMID:17445904](#)

Keywords: eeg, brain-computer interface, p300, fishers linear discriminant analysis, bayesian linear discriminant analysis, matlab, data set

Related Condition: Disabled, Able-bodied, Normal

Funding: Swiss National Science Foundation 200020-112313

Availability: Free, Available for download, Freely available

Resource Name: An efficient P300-based brain-computer interface for disabled subjects

Resource ID: SCR_001584

Alternate IDs: nlx_153820

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260801T190831+0000

Ratings and Alerts

No rating or validation information has been found for An efficient P300-based brain-computer interface for disabled subjects.

No alerts have been found for An efficient P300-based brain-computer interface for disabled subjects.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.