Resource Summary Report

Generated by NIF on May 23, 2025

EPILAB

RRID:SCR_009573
Type: Tool

Proper Citation

EPILAB (RRID:SCR_009573)

Resource Information

URL: http://www.epilepsiae.eu/project_outputs/epilab_software

Proper Citation: EPILAB (RRID:SCR_009573)

Description: A Matlab-based software package developed for supporting researchers in performing studies on the prediction of epileptic seizures. It provides an intuitive and convenient graphical user interface. Fundamental concepts that are crucial for epileptic seizure prediction studies were implemented.This includes, for example, the development and statistical validation of prediction methodologies in long-term continuous recordings. Seizure prediction is usually based on electroencephalography (EEG) and electrocardiography (ECG) signals. EPILAB is able to process both EEG and ECG data stored in different formats. More than 35 time and frequency domain measures (features) can be extracted based on univariate and multivariate data analysis. These features can be post-processed and used for prediction purposes. The predictions may be conducted based on optimized thresholds or by applying classifications methods such as artificial neural networks, cellular neuronal networks, and support vector machines.

Abbreviations: EPILAB

Synonyms: EPILAB Software

Resource Type: software application, software resource, data processing software

Defining Citation: PMID:21763347

Keywords: eeg, meg, electrocorticography, seizure, prediction

Related Condition: Epilepsy

Funding:

Availability: GNU General Public License

Resource Name: EPILAB

Resource ID: SCR_009573

Alternate IDs: nlx_155752

Alternate URLs: http://www.nitrc.org/projects/epilab

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250522T060608+0000

Ratings and Alerts

No rating or validation information has been found for EPILAB.

No alerts have been found for EPILAB.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Egere U, et al. (2023) "Honestly, this problem has affected me a lot": a qualitative exploration of the lived experiences of people with chronic respiratory disease in Sudan and Tanzania. BMC public health, 23(1), 485.

Kaminski M, et al. (2014) Directed Transfer Function is not influenced by volume conduction-inexpedient pre-processing should be avoided. Frontiers in computational neuroscience, 8, 61.

Alvarado-Rojas C, et al. (2014) Slow modulations of high-frequency activity (40-140-Hz) discriminate preictal changes in human focal epilepsy. Scientific reports, 4, 4545.