## **Resource Summary Report**

Generated by <u>NIF</u> on May 23, 2025

# **OpenMEEG**

RRID:SCR\_002510 Type: Tool

**Proper Citation** 

OpenMEEG (RRID:SCR\_002510)

## **Resource Information**

URL: http://openmeeg.gforge.inria.fr

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**Description:** A C++ package for low-frequency bio-electromagnetism solving forward problems in the field of EEG and MEG with very high accuracy.

Abbreviations: OpenMEEG

Resource Type: software application, software resource

Defining Citation: PMID:20819204, PMID:15638183

**Keywords:** algorithm, c++, eeg, meg, electrocorticography, eeg modeling, forward - inverse, macos, meg modeling, microsoft, modeling, posix/unix-like, windows, bioelectromagnetic

#### Funding:

Availability: CeCILL license v2

Resource Name: OpenMEEG

Resource ID: SCR\_002510

Alternate IDs: nlx\_155910

Alternate URLs: http://www.nitrc.org/projects/openmeeg, https://sources.debian.org/src/libopenmeeg-dev/

Record Creation Time: 20220129T080213+0000

## **Ratings and Alerts**

No rating or validation information has been found for OpenMEEG.

No alerts have been found for OpenMEEG.

## Data and Source Information

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 90 mentions in open access literature.

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

Yassine S, et al. (2024) Electrophysiological signatures of anxiety in Parkinson's disease. Translational psychiatry, 14(1), 66.

Kim YW, et al. (2024) The Importance of Low-frequency Alpha (8-10 Hz) Waves and Default Mode Network in Behavioral Inhibition. Clinical psychopharmacology and neuroscience : the official scientific journal of the Korean College of Neuropsychopharmacology, 22(1), 53.

Carretié L, et al. (2024) An extremely fast neural mechanism to detect emotional visual stimuli: A two-experiment study. PloS one, 19(6), e0299677.

Afnan J, et al. (2024) EEG/MEG source imaging of deep brain activity within the maximum entropy on the mean framework: Simulations and validation in epilepsy. Human brain mapping, 45(10), e26720.

Krukow P, et al. (2024) Tracking EEG network dynamics through transitions between eyesclosed, eyes-open, and task states. Scientific reports, 14(1), 17442.

Dib M, et al. (2024) Electroconvulsive therapy modulates loudness dependence of auditory evoked potentials: a pilot MEG study. Frontiers in psychiatry, 15, 1434434.

Wang C, et al. (2024) Network disruption based on multi-modal EEG-MRI in ?synucleinopathies. Frontiers in neurology, 15, 1442851.

Bastola S, et al. (2024) Improved Dipole Source Localization from Simultaneous MEG-EEG Data by Combining a Global Optimization Algorithm with a Local Parameter Search: A Brain Phantom Study. Bioengineering (Basel, Switzerland), 11(9).

Bieth T, et al. (2024) Time course of EEG power during creative problem-solving with insight

or remote thinking. Human brain mapping, 45(1), e26547.

Whittaker HT, et al. (2024) Information-based rhythmic transcranial magnetic stimulation to accelerate learning during auditory working memory training: a proof-of-concept study. Frontiers in neuroscience, 18, 1355565.

Jun S, et al. (2024) Rapid dynamics of electrophysiological connectome states are heritable. bioRxiv : the preprint server for biology.

Jun S, et al. (2024) Cognitive abilities are associated with rapid dynamics of electrophysiological connectome states. bioRxiv : the preprint server for biology.

Duma GM, et al. (2024) Excitation/Inhibition balance relates to cognitive function and gene expression in temporal lobe epilepsy: a high density EEG assessment with aperiodic exponent. Brain communications, 6(4), fcae231.

Matarrese MAG, et al. (2023) Spike propagation mapping reveals effective connectivity and predicts surgical outcome in epilepsy. Brain : a journal of neurology, 146(9), 3898.

Tong X, et al. (2023) Dissecting Symptom-linked Dimensions of Resting-State Electroencephalographic Functional Connectivity in Autism with Contrastive Learning. bioRxiv : the preprint server for biology.

Al E, et al. (2023) Cardiac activity impacts cortical motor excitability. PLoS biology, 21(11), e3002393.

Thibault N, et al. (2023) Distinct brain dynamics and networks for processing short and long auditory time intervals. Scientific reports, 13(1), 22018.

Schiano Lomoriello A, et al. (2023) Close to me but unreachable: spotting the link between peripersonal space and empathy. Social cognitive and affective neuroscience, 18(1).

Chowdhury NS, et al. (2023) Alterations in cortical excitability during pain: A combined TMS-EEG Study. bioRxiv : the preprint server for biology.

Yassine S, et al. (2022) Functional Brain Dysconnectivity in Parkinson's Disease: A 5-Year Longitudinal Study. Movement disorders : official journal of the Movement Disorder Society, 37(7), 1444.