

Resource Summary Report

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MEGSIM

RRID:SCR_002420

Type: Tool

Proper Citation

MEGSIM (RRID:SCR_002420)

Resource Information

URL: <http://cobre.mrn.org/megsim/>

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Description: Realistic simulated MEG datasets ranging from basic sensory to oscillatory sets that mimic functional connectivity; as well as basic visual, auditory, and somatosensory empirical sets. The simulated sets were created for the purpose of testing analysis algorithms across the different MEG systems when the truth is known. MEG baseline recordings were obtained from 5 healthy participants, using three MEG systems: VSM/CTF Omega, Elekta Neuromag Vectorview, 4-D Magnes 3600. Simulated signals were embedded within the CTF and Neuromag 306 baseline recordings (4-D to be added). Participant MRIs are available. Averaged simulation files are available as netcdf files. Neuromag 306 averaged simulations are also available in fif format. Also available: single trials of data where the simulated signal is jittered about a mean value, continuous fif files where the simulated signal is marked by a trigger, and simulations with oscillations added to mimic functional connectivity.

Abbreviations: MEGSIM

Resource Type: data or information resource, software application, data set, software resource, simulation software

Defining Citation: [PMID:22068921](#)

Keywords: eeg, meg, electrocorticography, forward - inverse, mri, meg modeling, model, simulation, os independent, test data, image collection

Funding: NIMH R21MH080141

Availability: Free, Freely available

Resource Name: MEGSIM

Resource ID: SCR_002420

Alternate IDs: nlx_155793

Alternate URLs: <http://www.nitrc.org/projects/megsim>

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260801T042516+0000

Ratings and Alerts

No rating or validation information has been found for MEGSIM.

No alerts have been found for MEGSIM.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.