

Resource Summary Report

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EMSE Suite

RRID:SCR_009571

Type: Tool

Proper Citation

EMSE Suite (RRID:SCR_009571)

Resource Information

URL: <http://www.sourcesignal.com/>

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Description: A technically supported modular platform for space-time-frequency analyses of EEG/MEG/ECOG integrated (optionally) with structural MRI and functional hemodynamic measures (fMRI and NIRS). The Locator module uses Polhemus devices to acquire 3D sensor coordinates. Data Editor provides pipelines of spatial and temporal filters, and easy-to-use event pipelines for conditional binning of time, frequency, and time-frequency data across participants, with group results. Coherence, phase synchronization, and quasi-causal information assess connectivity. Source Estimator enables modeling of discrete overdetermined and distributed underdetermined sources, and spatial filtering for 3D brain regions of interest. Statistical nonparametric mapping (SnPM) may be performed for all measures. MR Viewer and Image Processor comprise tools for BEM and FEM volume conductor models, using cortical source space models. See http://www.sourcesignal.com/Features_EMSE_550.pdf for details and a supported free trial.

Abbreviations: EMSE Suite

Resource Type: software resource, image analysis software, software application, data processing software, software toolkit

Keywords: application, eeg, meg, electrocorticography, eeg modeling, forward - inverse, modeling, magnetic resonance

Funding:

Availability: Commercial license

Resource Name: EMSE Suite

Resource ID: SCR_009571

Alternate IDs: nlx_155751

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

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250417T065346+0000

Ratings and Alerts

No rating or validation information has been found for EMSE Suite.

No alerts have been found for EMSE Suite.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Dwivedi VD, et al. (2021) Effects of Dispositional Affect on the N400: Language Processing and Socially Situated Context. *Frontiers in psychology*, 12, 566894.

Yamasaki T, et al. (2017) Enhanced Fine-Form Perception Does Not Contribute to Gestalt Face Perception in Autism Spectrum Disorder. *PLoS one*, 12(2), e0170239.

Liu Y, et al. (2014) The trait anger affects conflict inhibition: a Go/Nogo ERP study. *Frontiers in human neuroscience*, 8, 1076.

Shestakova A, et al. (2013) Electrophysiological precursors of social conformity. *Social cognitive and affective neuroscience*, 8(7), 756.

Kunii N, et al. (2013) Characteristic profiles of high gamma activity and blood oxygenation level-dependent responses in various language areas. *NeuroImage*, 65, 242.

Shackman AJ, et al. (2010) Identifying robust and sensitive frequency bands for interrogating neural oscillations. *NeuroImage*, 51(4), 1319.

Wylie GR, et al. (2009) Using co-variations in the Hb signal to detect visual activation: a near infrared spectroscopic imaging study. *NeuroImage*, 47(2), 473.

Fleck JI, et al. (2008) The transliminal brain at rest: baseline EEG, unusual experiences, and access to unconscious mental activity. *Cortex; a journal devoted to the study of the nervous system and behavior*, 44(10), 1353.

Kounios J, et al. (2008) The origins of insight in resting-state brain activity. *Neuropsychologia*, 46(1), 281.

Kounios J, et al. (2001) Cognitive association formation in human memory revealed by spatiotemporal brain imaging. *Neuron*, 29(1), 297.