Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 17, 2025

kCSD-Matlab

RRID:SCR_016424
Type: Tool

Proper Citation

kCSD-Matlab (RRID:SCR_016424)

Resource Information

URL: https://github.molgen.mpg.de/MPIBR-coattia/MatlabMain/tree/master/behaviorAnalysis/code/NSKtoolbox/externalToolboxes/kCSDv1

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Description: Software tool for analyzing recordings from multielectrodes. Source code for the Matlab implementation of the Kernel Current Source Density method. The method operates in one-, two-, and three-dimensional space to perform nonparametric estimation of transmembrane current sources from local field potentials recorded from arbitrarily distributed electrodes.

Abbreviations: kCSD

Synonyms: kernel Current Source Density

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

Keywords: analyzing, recording, data, multielectrode, transmembrane, current, source, estimate, kernel, source, density, method

Funding:

Availability: Free, Available for download, Freely available

Resource Name: kCSD-Matlab

Resource ID: SCR_016424

License: GNU General Public License

Record Creation Time: 20220129T080330+0000

Record Last Update: 20250417T065547+0000

Ratings and Alerts

No rating or validation information has been found for kCSD-Matlab.

No alerts have been found for kCSD-Matlab.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Bijanzadeh M, et al. (2018) Distinct Laminar Processing of Local and Global Context in Primate Primary Visual Cortex. Neuron, 100(1), 259.