

Resource Summary Report

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Spike Sorting Evaluation Project

RRID:SCR_004063

Type: Tool

Proper Citation

Spike Sorting Evaluation Project (RRID:SCR_004063)

Resource Information

URL: <http://spike.g-node.org/>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on January 9, 2023. This project attempts to establish a platform for spike sorting with two different goals: First, to provide a sophisticated benchmark data set which could be used for future publications on this topic. Second, to give researchers using spike sorting software the possibility to evaluate their data under different conditions and compare their results to other spike sorters. Extracellular recordings are a standard procedure to analyzing the activity of neurons. A problem with this kind of recording is the simultaneous recording of not a single neuron but a small local population of neurons. It is not straight-forward to reconstruct the single neuronal activities. To estimate the single neuron activity (the so called spike train) from this multi neuron activity, spike sorting is applied. Many different algorithms for spike sorting were proposed. However, despite many efforts to tackle this problem, it is still difficult to tell under which circumstances which spike sorting algorithm is the best. If you are interested in some basic reading about spike sorting please consult the following references. A review of methods for spike sorting: the detection and classification of neural action potentials M. S. Lewicki (1998), Network: Computation in Neural Systems, Vol. 9, No. 4. (1998), pp. 53-78 Towards reliable spike-train recordings from thousands of neurons with multielectrodes. Einevoll GT, Franke F, Hagen E, Pouzat C, Harris KD (2011), Curr Opin Neurobiol. 2011 Oct 22.

Abbreviations: Spikesorting Evaluation

Resource Type: data analysis software, data or information resource, data processing software, database, software application, software resource

Keywords: spike sorting, neuron, extracellular

Funding: BMBF

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Spike Sorting Evaluation Project

Resource ID: SCR_004063

Alternate IDs: nlx_151374

Record Creation Time: 20220129T080222+0000

Record Last Update: 20260905T132514+0000

Ratings and Alerts

No rating or validation information has been found for Spike Sorting Evaluation Project.

No alerts have been found for Spike Sorting Evaluation Project.

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 [PRECISE-TBI](#) .

Hagen E, et al. (2015) ViSAPy: a Python tool for biophysics-based generation of virtual spiking activity for evaluation of spike-sorting algorithms. Journal of neuroscience methods, 245, 182.