Resource Summary Report

Generated by NIF on May 19, 2025

OSort

RRID:SCR_015869
Type: Tool

Proper Citation

OSort (RRID:SCR_015869)

Resource Information

URL: http://www.rutishauserlab.org/osort

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Description: Framework for spike sorting that includes tools for pre-processing, spike detection, spike sorting, and sorting quality evaluation. It is principally designed for sorting of single-wire microwire recordings in humans, but is being used for other types of recordings as well.

Synonyms: OSort: spike sorting package

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

Defining Citation: PMID:16488479

Keywords: spike sorting, spike detection, single-wire microwire recording, neuroimaging, neuron recording

Funding: Gimbel Discovery Fund ;
Howard Hughes Medical Institute ;
Cedars-Sinai Medical Center

Availability: Open source, Available for download, Tutorial available

Resource Name: OSort

Resource ID: SCR_015869

Record Creation Time: 20220129T080327+0000

Record Last Update: 20250517T060228+0000

Ratings and Alerts

No rating or validation information has been found for OSort.

No alerts have been found for OSort.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Courellis HS, et al. (2024) Abstract representations emerge in human hippocampal neurons during inference. Nature, 632(8026), 841.

Imtiaz Z, et al. (2024) Human Substantia Nigra Neurons Encode Reward Expectations. bioRxiv : the preprint server for biology.

Kyzar M, et al. (2024) Dataset of human-single neuron activity during a Sternberg working memory task. Scientific data, 11(1), 89.

Mosher CP, et al. (2020) Cellular Classes in the Human Brain Revealed In Vivo by Heartbeat-Related Modulation of the Extracellular Action Potential Waveform. Cell reports, 30(10), 3536.

Fu Z, et al. (2019) Single-Neuron Correlates of Error Monitoring and Post-Error Adjustments in Human Medial Frontal Cortex. Neuron, 101(1), 165.

Rutishauser U, et al. (2018) Single-Neuron Representation of Memory Strength and Recognition Confidence in Left Human Posterior Parietal Cortex. Neuron, 97(1), 209.

Kami?ski J, et al. (2018) Novelty-Sensitive Dopaminergic Neurons in the Human Substantia Nigra Predict Success of Declarative Memory Formation. Current biology : CB, 28(9), 1333.

Wang S, et al. (2018) Encoding of Target Detection during Visual Search by Single Neurons in the Human Brain. Current biology : CB, 28(13), 2058.

Chen HY, et al. (2017) An Efficient Hardware Circuit for Spike Sorting Based on Competitive

Learning Networks. Sensors (Basel, Switzerland), 17(10).

Kami?ski J, et al. (2017) Persistently active neurons in human medial frontal and medial temporal lobe support working memory. Nature neuroscience, 20(4), 590.

Hwang WJ, et al. (2014) Spike detection based on normalized correlation with automatic template generation. Sensors (Basel, Switzerland), 14(6), 11049.