

Resource Summary Report

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Behavioral Segmentation of Open-field in DeepLabCut

RRID:SCR_021385

Type: Tool

Proper Citation

Behavioral Segmentation of Open-field in DeepLabCut (RRID:SCR_021385)

Resource Information

URL: <https://github.com/YttriLab/B-SOID>

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Description: Software pipeline that pairs unsupervised pattern recognition with supervised classification to achieve fast predictions of behaviors that are not predefined by users. Unsupervised learning algorithm that discovers and classifies actions based on inherent statistics of data points provided.

Abbreviations: B-SOiD

Synonyms: B-SOiD v2.0

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

Defining Citation: [DOI:10.1101/770271](https://doi.org/10.1101/770271)

Keywords: OpenBehavior, pairs unsupervised pattern recognition, supervised classification, behavior predictions, discovers actions, classifies actions

Availability: Free, Available for download, Freely Available

Resource Name: Behavioral Segmentation of Open-field in DeepLabCut

Resource ID: SCR_021385

Alternate URLs: <https://edspace.american.edu/openbehavior/project/b-soid-unsupervised-behavior-analysis/>

License: GNU General Public License v3.0

Record Creation Time: 20220129T080355+0000

Record Last Update: 20260805T044448+0000

Ratings and Alerts

No rating or validation information has been found for Behavioral Segmentation of Open-field in DeepLabCut.

No alerts have been found for Behavioral Segmentation of Open-field in DeepLabCut.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Koch ET, et al. (2024) Deep behavioural phenotyping of the Q175 Huntington disease mouse model: effects of age, sex, and weight. BMC biology, 22(1), 121.

Vickers ED, et al. (2024) Pan-cortical 2-photon mesoscopic imaging and neurobehavioral alignment in awake, behaving mice. eLife, 13.

Ibáñez Alcalá RJ, et al. (2024) RECORD, a high-throughput, customizable system that unveils behavioral strategies leveraged by rodents during foraging-like decision-making. Communications biology, 7(1), 822.

Vickers ED, et al. (2023) Pan-cortical 2-photon mesoscopic imaging and neurobehavioral alignment in awake, behaving mice. bioRxiv : the preprint server for biology.

Huang K, et al. (2023) Rapid, automated, and experimenter-free touchscreen testing reveals reciprocal interactions between cognitive flexibility and activity-based anorexia in female rats. eLife, 12.

Hsu AI, et al. (2021) B-SOiD, an open-source unsupervised algorithm for identification and fast prediction of behaviors. Nature communications, 12(1), 5188.