Resource Summary Report

Generated by dkNET on Apr 27, 2025

DeepLabCut

RRID:SCR_021391

Type: Tool

Proper Citation

DeepLabCut (RRID:SCR_021391)

Resource Information

URL: https://github.com/DeepLabCut/DeepLabCut

Proper Citation: DeepLabCut (RRID:SCR_021391)

Description: Open source software package for markerless pose estimation. 2D keypoint

detection in animals.

Resource Type: software toolkit, software resource

Defining Citation: DOI:10.1038/s41593-018-0209-y

Keywords: OpenBehavior, animal pose estimation, markerless pose estimation, body parts,

multi-animal pose estimation

Funding:

Availability: Free, Available for download, Freely Available

Resource Name: DeepLabCut

Resource ID: SCR 021391

Alternate URLs: https://edspace.american.edu/openbehavior/project/deeplabcut/

License: GNU Lesser General Public License v3.0

Record Creation Time: 20221210T050148+0000

Record Last Update: 20250426T060805+0000

Ratings and Alerts

No rating or validation information has been found for DeepLabCut.

No alerts have been found for DeepLabCut.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 54 mentions in open access literature.

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

Palacios ER, et al. (2025) GlyT2-Positive Interneurons Regulate Timing and Variability of Information Transfer in a Cerebellar-Behavioral Loop. The Journal of neuroscience: the official journal of the Society for Neuroscience, 45(5).

Galante H, et al. (2024) Acute exposure to caffeine improves foraging in an invasive ant. iScience, 27(6), 109935.

Ratliff JM, et al. (2024) Neocortical long-range inhibition promotes cortical synchrony and sleep. bioRxiv: the preprint server for biology.

Zhou Z, et al. (2024) Hovering flight regulation of pigeon robots in laboratory and field. iScience, 27(10), 110927.

Friedrich MU, et al. (2024) Validation and application of computer vision algorithms for video-based tremor analysis. NPJ digital medicine, 7(1), 165.

Savani R, et al. (2024) Metabolic and behavioral alterations associated with viral vector-mediated toxicity in the paraventricular hypothalamic nucleus. bioRxiv: the preprint server for biology.

Zúñiga Mouret R, et al. (2024) The adaptor protein 2 (AP2) complex modulates habituation and behavioral selection across multiple pathways and time windows. iScience, 27(4), 109455.

Bellafard A, et al. (2024) Volatile working memory representations crystallize with practice. Nature, 629(8014), 1109.

Hohlbaum K, et al. (2024) Lockbox enrichment facilitates manipulative and cognitive activities for mice. Open research Europe, 4, 108.

Gupta S, et al. (2024) Quantitative orbital tightening for pain assessment using machine

learning with DeepLabCut. Neurobiology of pain (Cambridge, Mass.), 16, 100164.

Berezhnoi D, et al. (2024) Open-source platform for kinematic analysis of mouse forelimb movement. STAR protocols, 5(3), 103140.

Savani R, et al. (2024) Metabolic and behavioral alterations associated with viral vector-mediated toxicity in the paraventricular hypothalamic nucleus. Bioscience reports, 44(1).

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.

Ye S, et al. (2024) SuperAnimal pretrained pose estimation models for behavioral analysis. Nature communications, 15(1), 5165.

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

Gauld OM, et al. (2024) A latent pool of neurons silenced by sensory-evoked inhibition can be recruited to enhance perception. Neuron, 112(14), 2386.

Lv S, et al. (2024) STPoseNet: A real-time spatiotemporal network model for robust mouse pose estimation. iScience, 27(5), 109772.

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.

Ebina T, et al. (2024) Dynamics of directional motor tuning in the primate premotor and primary motor cortices during sensorimotor learning. Nature communications, 15(1), 7127.

Alcacer C, et al. (2024) Abnormal hyperactivity of specific striatal ensembles encodes distinct dyskinetic behaviors revealed by high-resolution clustering. bioRxiv: the preprint server for biology.