

Resource Summary Report

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DeepLabCut

RRID:SCR_021391

Type: Tool

Proper Citation

DeepLabCut (RRID:SCR_021391)

Resource Information

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

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

Resource Type: software resource, software toolkit

Defining Citation: [DOI:10.1038/s41593-018-0209-y](https://doi.org/10.1038/s41593-018-0209-y)

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

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: 20260829T183126+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 120 mentions in open access literature.

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

Mitrevisa Z, et al. (2026) Distinct descending and biomechanical influences on interlimb coordination in mice. iScience, 29(3), 115008.

Syed DS, et al. (2026) Inhibitory circuits control leg movements during Drosophila grooming. eLife, 14.

Philipp R, et al. (2026) Multi-timescale neural adaptation underlying long-term musculoskeletal reorganization. eLife, 14.

Chen H, et al. (2026) High-throughput multi-camera array microscope platform for automated 3D behavioral analysis of swimming zebrafish larvae. Communications biology, 9(1), 141.

Yaghmazadeh O, et al. (2026) Non-invasive modulation of brain activity and behavior by transcranial radio frequency stimulation. Brain stimulation, 19(2), 103032.

Gupta S, et al. (2026) Orbital tightening assessment to evaluate pain and physical discomfort in chlorine-exposed rats: A machine learning based measurement approach. Molecular pain, 22, 17448069251410828.

Gao WJ, et al. (2026) Grand challenges for systems neuroscience: perspectives and opportunities. Frontiers in systems neuroscience, 20, 1818506.

Oesch LT, et al. (2026) Anterior cingulate neurons combine outcome monitoring of past decisions with ongoing movement signals. Nature communications, 17(1).

Liu R, et al. (2026) Directional dynamics in the entorhinal cortex of male mice driven by behavioral constraints. Nature communications, 17(1).

Parkes I, et al. (2026) Precision cutaneous stimulation in freely moving mice. eLife, 14.

Davis MN, et al. (2026) Parvalbumin Neuron-Targeted Loss of Alzheimer's Disease Risk Gene BIN1 Is Insufficient to Drive Cognitive or Network Excitability Changes. eNeuro, 13(3).

Ding C, et al. (2026) A Machine Learning Framework Integrating DeepLabCut and SimBA for Quantifying Aggressive Behavior in Swimming Crab Portunus trituberculatus. Animals : an open access journal from MDPI, 16(10).

??zdil PG, et al. (2026) Centralized brain networks controlling antennal grooming coordination. Nature communications, 17(1).

Wakhloo AJ, et al. (2026) Neural population geometry and optimal coding of tasks with shared latent structure. *Nature neuroscience*, 29(3), 682.

Durgala A, et al. (2026) Anxiety-like behaviour in mice after mild repetitive head impacts during the subacute phase. *Frontiers in behavioral neuroscience*, 20, 1839876.

Padmanabhan A, et al. (2026) Embryonic dopaminergic neuron activity sustains lifelong locomotion in *Drosophila*. *Cell reports*, 45(7), 117524.

Bissen D, et al. (2026) Ethological learning during the critical period resets synaptic setpoints in mouse binocular visual cortex. *Neuron*.

Blot FGC, et al. (2026) 2P-FENDO-II: A fiber bundle microscope for all-optical, large field-of-view brain studies in freely moving mice. *Cell reports methods*, 6(2), 101305.

An X, et al. (2026) A cortical circuit for orchestrating oromaneal food manipulation. *Neuron*, 114(12), 2254.

Hosford PS, et al. (2026) Control of representation updating by higher-order thalamus enables history-based decision-making. *Neuron*.