

Resource Summary Report

Generated by [ASWG](#) on Aug 26, 2026

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: 20260821T194154+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 [ASWG](#).

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*.