

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: 20260801T042852+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 89 mentions in open access literature.

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

Supple JA, et al. (2026) Species-specific spectral tuning of motion vision in butterflies. *Current biology : CB*, 36(2), 290.

Oesch LT, et al. (2025) Anterior cingulate cortex mixes retrospective cognitive signals and ongoing movement signatures during decision-making. *Research square*.

Peng JJ, et al. (2025) Grid cells accurately track movement during path integration-based navigation despite switching reference frames. *Nature neuroscience*, 28(10), 2092.

Woo J, et al. (2025) Dynamic changes in chloride homeostasis coordinate midbrain inhibitory network activity during reward learning. *Nature communications*, 16(1), 10903.

Huang JY, et al. (2025) From initial formation to developmental refinement: GABAergic inputs shape neuronal subnetworks in the primary somatosensory cortex. *iScience*, 28(3), 112104.

Oesch LT, et al. (2025) Anterior cingulate cortex mixes retrospective cognitive signals and ongoing movement signatures during decision-making. *bioRxiv : the preprint server for biology*.

Sakurai L, et al. (2025) Q Neuron-Induced Hypothermia Promotes Functional Recovery and Suppresses Neuroinflammation after Brain Injury. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(47).

Bennett C, et al. (2025) Map of spiking activity underlying change detection in the mouse visual system. *bioRxiv : the preprint server for biology*.

Chen C, et al. (2025) Location-specific neural facilitation in marmoset auditory cortex. *Nature communications*, 16(1), 2773.

Berezhnoi D, et al. (2025) Subsecond Analysis of Locomotor Activity in Parkinsonian Mice. *eNeuro*, 12(8).

Zhu H, et al. (2025) Temporal coding carries more stable cortical visual representations than firing rate over time. *bioRxiv : the preprint server for biology*.

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).

Ishii KK, et al. (2025) Post-ejaculatory inhibition of female sexual drive via heterogeneous neuronal ensembles in the medial preoptic area. *eLife*, 12.

Tien R, et al. (2025) Neurons in human motor thalamus encode reach kinematics and positional errors related to braking. *Research square*.

Tesmer AL, et al. (2025) Orexin population activity precisely reflects net body movement across behavioral and metabolic states. *eLife*, 14.

Gillon CJ, et al. (2025) Open Data In Neurophysiology: Advancements, Solutions & Challenges. *eNeuro*, 12(11).

Kondo M, et al. (2025) Multimodal dataset linking wide-field calcium imaging to behavior changes in operant lever-pull task in mice. *Scientific data*, 12(1), 1264.

Zhu H, et al. (2025) Temporal coding carries more stable cortical visual representations than firing rate over time. *Nature communications*, 16(1), 7162.

Patil M, et al. (2025) A Deep Learning Approach to Measure Visual Function in Zebrafish. *Biology*, 14(6).

Mueller M, et al. (2025) The SnackerTracker: A novel home-cage monitoring device for measuring food-intake and food-seeking behaviour in mice. *Wellcome open research*, 10, 172.