

Resource Summary Report

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Closed Loop Automated Reaching Apparatus

RRID:SCR_022365

Type: Tool

Proper Citation

Closed Loop Automated Reaching Apparatus (RRID:SCR_022365)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/clara/>

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Description: Closed loop automated reaching apparatus for interrogating complex motor behaviors. Mechanical components include behavior box, series of cameras, and food pellet dispenser. Single workstation computer manages cameras, communicates with microcontroller, and analyzes mouse behavior in real time using modules extracted from DeepLabCut. Integrates fully automated, markerless kinematic tracking of multiple features to classify animal behavior and delivers neural stimulation based on behavioral outcomes. CLARA is compatible with advanced neurophysiological tools, enabling testing of neurostimulation devices and identification of novel neurological biomarkers. System fully automates trial initiation and pellet delivery and is capable of accurately delivering stimulation in response to trial outcome with short latency.

Abbreviations: CLARA

Synonyms: Closed Loop Automated Reaching Apparatus Project

Resource Type: project portal, data or information resource, portal, instrument resource

Defining Citation: [DOI:10.1088/1741-2552/ac1ed1](https://doi.org/10.1088/1741-2552/ac1ed1)

Keywords: OpenBehavior, Instrument, interrogating complex motor behaviors apparatus, mouse behavior apparatus, markerless kinematic tracking, kinematic data, animal behavior, neural stimulation

Availability: Free, Freely available

Resource Name: Closed Loop Automated Reaching Apparatus

Resource ID: SCR_022365

Alternate URLs: https://github.com/wryanw/CLARA_DLC

Record Creation Time: 20220602T050140+0000

Record Last Update: 20260801T042851+0000

Ratings and Alerts

No rating or validation information has been found for Closed Loop Automated Reaching Apparatus.

No alerts have been found for Closed Loop Automated Reaching Apparatus.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Manganelli Conforti P, et al. (2022) Deep Learning for Chondrogenic Tumor Classification through Wavelet Transform of Raman Spectra. Sensors (Basel, Switzerland), 22(19).