

# Resource Summary Report

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## EDLUT

RRID:SCR\_014261

Type: Tool

### Proper Citation

EDLUT (RRID:SCR\_014261)

### Resource Information

**URL:** <https://code.google.com/archive/p/edlut/>

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**Description:** Simulation software which creates spiking cell models using either a time-driven strategy or an event-driven strategy based on look-up tables. EDLUT serves as a tool for studying the computational principles of neural systems to reveal how different functionalities of the brain and central nervous system are based on cell and topology properties.

**Synonyms:** EDLUT: Event-Driven simulator based on Look-Up-Tables, Event-Driven simulator based on Look-Up-Tables

**Resource Type:** simulation software, software application, software resource

**Defining Citation:** [DOI:10.1162/neco.2006.18.12.2959](https://doi.org/10.1162/neco.2006.18.12.2959)

**Keywords:** spiking neural network, simulation software,

**Availability:** Open source, Available for download

**Resource Name:** EDLUT

**Resource ID:** SCR\_014261

**License:** GNU GPL v3

**Record Creation Time:** 20220129T080319+0000

**Record Last Update:** 20260905T133005+0000

### Ratings and Alerts

No rating or validation information has been found for EDLUT.

No alerts have been found for EDLUT.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Tirado MP, et al. (2025) A computational model of the cerebellar granular layer calibrated to experimental data for studying inhibition and sensory encoding. Scientific reports, 15(1), 41788.

Antonietti A, et al. (2019) Control of a Humanoid NAO Robot by an Adaptive Bioinspired Cerebellar Module in 3D Motion Tasks. Computational intelligence and neuroscience, 2019, 4862157.

Luque NR, et al. (2019) Spike burst-pause dynamics of Purkinje cells regulate sensorimotor adaptation. PLoS computational biology, 15(3), e1006298.

Naveros F, et al. (2017) Event- and Time-Driven Techniques Using Parallel CPU-GPU Co-processing for Spiking Neural Networks. Frontiers in neuroinformatics, 11, 7.