

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

NeoCortical Simulator

RRID:SCR_014257

Type: Tool

Proper Citation

NeoCortical Simulator (RRID:SCR_014257)

Resource Information

URL: <http://www.cse.unr.edu/brain/ncs>

Proper Citation: NeoCortical Simulator (RRID:SCR_014257)

Description: A neural simulator which models integrate-and-fire neurons with conductance-based synapses. NCS supports simulations for larger models and also supports real-time neurorobotics applications. Two versions of NCS are available: NCS 5, which is based on CPU cluster; and NCS 6, a multi-box, multi-GPU version. NCS 5 models integrate-and-fire neurons with conductance-based synapses using two clusters: four SUN 4600 machines and 208 Opteron cores. NCS 6 is a neural simulator for heterogeneous clusters of both CPUs and GPUS.

Abbreviations: NCS

Resource Type: simulation software, software application, software resource

Keywords: simulation software, neural simulator, conductance based synapse, neurobotics

Availability: Source code is available

Resource Name: NeoCortical Simulator

Resource ID: SCR_014257

License: <http://www.cse.unr.edu/~brain/ncs6/license.pdf>

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260905T132744+0000

Ratings and Alerts

No rating or validation information has been found for NeoCortical Simulator.

No alerts have been found for NeoCortical Simulator.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.