## **Resource Summary Report**

Generated by NIF on Apr 19, 2025

# **Neural Open Simulation**

RRID:SCR\_002916 Type: Tool

#### **Proper Citation**

Neural Open Simulation (RRID:SCR\_002916)

### **Resource Information**

URL: http://www.neurogems.org/neosim/

Proper Citation: Neural Open Simulation (RRID:SCR\_002916)

**Description:** Simulation software that includes a parallel discrete event simulation kernel for running models of spiking neurons on a cluster of workstations. Models are specified using NeuroML, and visualized using Java2D. Simulation components are distributed across a parallel machine or network and communicate using timestamped events. The successor NEOSIM2 project under the NeuroGems umbrella at Edinburgh University (http://www.neurogems.org) continues to distribute the software, http://www.neurogems.org/neosim2/ The NEOSIM project includes: \* a parallel discrete event simulation kernel for running models of spiking neural networks on clusters of machines. \* a modules kit for extending the behavior of neurons and connectivity patterns. \* a user interface for building and running simulations. OS: Linux, MS-Windows

#### Abbreviations: NEOSIM

Synonyms: NEOSIM - Neural Open Simulation

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

**Keywords:** systems modeling, simulation, model, neuron, spiking, neural network, behavior, connectivity, source code, xml

Funding: NIMH MH-57358

Resource Name: Neural Open Simulation

Resource ID: SCR\_002916

Alternate IDs: nif-0000-00161

**Record Creation Time:** 20220129T080216+0000

Record Last Update: 20250419T054908+0000

#### **Ratings and Alerts**

No rating or validation information has been found for Neural Open Simulation.

No alerts have been found for Neural Open Simulation.

Data and Source Information

Source: <u>SciCrunch Registry</u>

**Usage and Citation Metrics** 

We have not found any literature mentions for this resource.