Resource Summary Report

Generated by NIF on May 16, 2025

NetworkUnit

RRID:SCR_016543
Type: Tool

Proper Citation

NetworkUnit (RRID:SCR_016543)

Resource Information

URL: https://github.com/INM-6/NetworkUnit

Proper Citation: NetworkUnit (RRID:SCR_016543)

Description: Library of a test driven framework for formally validating scientific models against experimental data used for validation testing of spiking neuron network simulations on the network activity level.

Resource Type: software resource, software toolkit, software library

Keywords: validation, neuroscience, electrophysiology, spiking, neural, network, simulation

Funding:

Availability: Free, Available for download, Freely available

Resource Name: NetworkUnit

Resource ID: SCR_016543

Record Creation Time: 20220129T080331+0000

Record Last Update: 20250514T061751+0000

Ratings and Alerts

No rating or validation information has been found for NetworkUnit.

No alerts have been found for NetworkUnit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Dasbach S, et al. (2021) Dynamical Characteristics of Recurrent Neuronal Networks Are Robust Against Low Synaptic Weight Resolution. Frontiers in neuroscience, 15, 757790.

Trensch G, et al. (2018) Rigorous Neural Network Simulations: A Model Substantiation Methodology for Increasing the Correctness of Simulation Results in the Absence of Experimental Validation Data. Frontiers in neuroinformatics, 12, 81.

Gutzen R, et al. (2018) Reproducible Neural Network Simulations: Statistical Methods for Model Validation on the Level of Network Activity Data. Frontiers in neuroinformatics, 12, 90.

Ahmadian Y, et al. (2015) Properties of networks with partially structured and partially random connectivity. Physical review. E, Statistical, nonlinear, and soft matter physics, 91(1), 012820.