

Resource Summary Report

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NetworkUnit

RRID:SCR_016543

Type: Tool

Proper Citation

NetworkUnit (RRID:SCR_016543)

Resource Information

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

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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 library, software resource, software toolkit

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

Availability: Free, Available for download, Freely available

Resource Name: NetworkUnit

Resource ID: SCR_016543

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260829T182548+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 6 mentions in open access literature.

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

Arthur BJ, et al. (2023) A scalable implementation of the recursive least-squares algorithm for training spiking neural networks. *Frontiers in neuroinformatics*, 17, 1099510.

Trensch G, et al. (2022) A System-on-Chip Based Hybrid Neuromorphic Compute Node Architecture for Reproducible Hyper-Real-Time Simulations of Spiking Neural Networks. *Frontiers in neuroinformatics*, 16, 884033.

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.