

Resource Summary Report

Generated by [RRID](#) on Aug 9, 2026

DiPDE

RRID:SCR_015822

Type: Tool

Proper Citation

DiPDE (RRID:SCR_015822)

Resource Information

URL: <http://alleninstitute.github.io/dipde/>

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Description: Simulation platform for numerically solving the time evolution of coupled networks of neuronal populations. DiPDE can facilitate the fast exploration of mesoscale (population-level) network topologies, where large populations of neurons are treated as homogeneous with random fine-scale connectivity.

Synonyms: DiPDE (Integro-partial differential equation with displacement), dipde

Resource Type: software resource, software application, source code, simulation software, data analysis software, data processing software

Keywords: simulation, time evolution, coupled network, neuron population, neural network, mesoscale network topology, fine-scale connectivity

Funding: Allen Institute for Brain Science

Availability: Free, Available for download

Resource Name: DiPDE

Resource ID: SCR_015822

Alternate URLs: <https://github.com/AllenInstitute/dipde>

License: GNU General Public License v3.0

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260808T190042+0000

Ratings and Alerts

No rating or validation information has been found for DiPDE.

No alerts have been found for DiPDE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Layer M, et al. (2022) NNMT: Mean-Field Based Analysis Tools for Neuronal Network Models. Frontiers in neuroinformatics, 16, 835657.

Cain N, et al. (2016) The Computational Properties of a Simplified Cortical Column Model. PLoS computational biology, 12(9), e1005045.

Iyer R, et al. (2013) The influence of synaptic weight distribution on neuronal population dynamics. PLoS computational biology, 9(10), e1003248.