Resource Summary Report

Generated by dkNET on Apr 16, 2025

Dipy

RRID:SCR_000029
Type: Tool

Proper Citation

Dipy (RRID:SCR_000029)

Resource Information

URL: https://dipy.org/

Proper Citation: Dipy (RRID:SCR_000029)

Description: Software Python package for analyzing diffusion data. Software library for analysis of diffusion MRI data.

Abbreviations: DIPY

Synonyms: Diffusion Imaging In Python, NIPY Diffusion Imaging Analysis

Resource Type: software resource, data analysis software, software application, software toolkit, data processing software

Defining Citation: PMID:24600385

Keywords: MRI, magnetic resonance, diffusion data analysis, diffusion MRI data, diffusion MRI data analysis,

Funding:

Availability: Free, Available for download, Freely available

Resource Name: Dipy

Resource ID: SCR_000029

Alternate IDs: nlx_155745

Alternate URLs: https://sources.debian.org/src/python-dipy/, http://www.nitrc.org/projects/dipy, http://elef.soic.indiana.edu/,

https://github.com/nipy/dipy_web,

Old URLs: http://nipy.org/dipy/

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Record Creation Time: 20220129T080159+0000

Record Last Update: 20250416T063212+0000

Ratings and Alerts

No rating or validation information has been found for Dipy.

No alerts have been found for Dipy.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Ilias L, et al. (2023) Overview of methods and available tools used in complex brain disorders. Open research Europe, 3, 152.

Meisler SL, et al. (2022) A large-scale investigation of white matter microstructural associations with reading ability. NeuroImage, 249, 118909.

Siugzdaite R, et al. (2020) Transdiagnostic Brain Mapping in Developmental Disorders. Current biology : CB, 30(7), 1245.

Chamberland M, et al. (2018) Meyer's loop tractography for image-guided surgery depends on imaging protocol and hardware. NeuroImage. Clinical, 20, 458.

Tricot B, et al. (2017) Improving the evaluation of cardiac function in rats at 7T with denoising filters: a comparison study. BMC medical imaging, 17(1), 62.

Sharmin N, et al. (2017) White Matter Tract Segmentation as Multiple Linear Assignment Problems. Frontiers in neuroscience, 11, 754.

Xu T, et al. (2017) A Novel Richardson-Lucy Model with Dictionary Basis and Spatial Regularization for Isolating Isotropic Signals. PloS one, 12(1), e0168864.

Olivetti E, et al. (2016) Alignment of Tractograms As Graph Matching. Frontiers in neuroscience, 10, 554.

Samson RS, et al. (2016) ZOOM or Non-ZOOM? Assessing Spinal Cord Diffusion Tensor Imaging Protocols for Multi-Centre Studies. PloS one, 11(5), e0155557.

Paquette M, et al. (2016) Optimal DSI reconstruction parameter recommendations: Better ODFs and better connectivity. NeuroImage, 142, 1.

Rokem A, et al. (2015) Evaluating the accuracy of diffusion MRI models in white matter. PloS one, 10(4), e0123272.

Burianová H, et al. (2015) The relation of structural integrity and task-related functional connectivity in the aging brain. Neurobiology of aging, 36(10), 2830.

Canales-Rodríguez EJ, et al. (2015) Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PloS one, 10(10), e0138910.

Garyfallidis E, et al. (2014) Dipy, a library for the analysis of diffusion MRI data. Frontiers in neuroinformatics, 8, 8.

Yeh FC, et al. (2013) Deterministic diffusion fiber tracking improved by quantitative anisotropy. PloS one, 8(11), e80713.