Resource Summary Report

Generated by NIF on May 25, 2025

NiBabel

RRID:SCR_002498
Type: Tool

Proper Citation

NiBabel (RRID:SCR_002498)

Resource Information

URL: http://nipy.org/nibabel/

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Description: A Python package for reading and writing a variety of medical and neuroimaging file formats. This includes: ANALYZE (plain, SPM99, SPM2), NIfTI1, as well as MINC. NiBabel is the successor of PyNIfTI.

Abbreviations: NiBabel

Synonyms: NIPY File IO

Resource Type: software resource

Keywords: magnetic resonance, python, neuroimaging

Funding:

Availability: BSD License, MIT License

Resource Name: NiBabel

Resource ID: SCR_002498

Alternate IDs: nlx_155896

Alternate URLs: http://www.nitrc.org/projects/nibabel

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250525T030706+0000

Ratings and Alerts

No rating or validation information has been found for NiBabel.

No alerts have been found for NiBabel.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 94 mentions in open access literature.

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

Herault C, et al. (2024) Creative connections: the neural correlates of semantic relatedness are associated with creativity. Communications biology, 7(1), 810.

Hirsch F, et al. (2024) Diverging functional connectivity timescales: Capturing distinct aspects of cognitive performance in early psychosis. NeuroImage. Clinical, 43, 103657.

Kaltenecker D, et al. (2024) Virtual reality-empowered deep-learning analysis of brain cells. Nature methods, 21(7), 1306.

Støverud KH, et al. (2024) AeroPath: An airway segmentation benchmark dataset with challenging pathology and baseline method. PloS one, 19(10), e0311416.

Radwan AM, et al. (2024) Comparative validation of automated presurgical tractography based on constrained spherical deconvolution and diffusion tensor imaging with direct electrical stimulation. Human brain mapping, 45(6), e26662.

Bortolotto C, et al. (2024) CT and MRI radiomic features of lung cancer (NSCLC): comparison and software consistency. European radiology experimental, 8(1), 71.

Keshavamurthy KN, et al. (2024) Pre-operative lung ablation prediction using deep learning. European radiology, 34(11), 7161.

Fiscone C, et al. (2024) Generalizing the Enhanced-Deep-Super-Resolution Neural Network to Brain MR Images: A Retrospective Study on the Cam-CAN Dataset. eNeuro, 11(5).

Dong Y, et al. (2024) A self-supervised learning approach for registration agnostic imaging models with 3D brain CTA. iScience, 27(3), 109004.

Qiu Y, et al. (2024) Neural substrates of affective temperaments: An intersubject representational similarity analysis to resting-state functional magnetic resonance imaging in nonclinical subjects. Human brain mapping, 45(7), e26696.

Cheng CT, et al. (2024) Deep Learning for Automated Detection and Localization of Traumatic Abdominal Solid Organ Injuries on CT Scans. Journal of imaging informatics in medicine, 37(3), 1113.

Häkkinen S, et al. (2024) Lateral frontoparietal functional connectivity based on individual sulcal morphology. bioRxiv : the preprint server for biology.

Jang DH, et al. (2024) Kidney, ureter, and urinary bladder segmentation based on non-contrast enhanced computed tomography images using modified U-Net. Scientific reports, 14(1), 15325.

Al-Omari A, et al. (2024) Neuroanatomical evidence and a mouse calcitonin gene-related peptide model in line with human functional magnetic resonance imaging data support the involvement of peptidergic Edinger-Westphal nucleus in migraine. Pain, 165(12), 2774.

Holton E, et al. (2024) Goal commitment is supported by vmPFC through selective attention. Nature human behaviour, 8(7), 1351.

Momota Y, et al. (2024) Amyloid-? prediction machine learning model using source-based morphometry across neurocognitive disorders. Scientific reports, 14(1), 7633.

Samuelsson JG, et al. (2024) The Human Cerebellum: A Digital Anatomical Atlas at the Level of Individual Folia. bioRxiv : the preprint server for biology.

Link KE, et al. (2024) Longitudinal deep neural networks for assessing metastatic brain cancer on a large open benchmark. Nature communications, 15(1), 8170.

Bilic P, et al. (2023) The Liver Tumor Segmentation Benchmark (LiTS). Medical image analysis, 84, 102680.

Welborn BL, et al. (2023) Default egocentrism: an MVPA approach to overlap in own and others' socio-political attitudes. Social cognitive and affective neuroscience, 18(1).