

Resource Summary Report

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Neuroimaging Informatics Technology Initiative

RRID:SCR_003141

Type: Tool

Proper Citation

Neuroimaging Informatics Technology Initiative (RRID:SCR_003141)

Resource Information

URL: <http://nifti.nimh.nih.gov/>

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Description: Coordinated and targeted service, training, and research to speed the development and enhance the utility of informatics tools related to neuroimaging. The initial focus will be on tools that are used in fMRI. If NIfTI proves useful in addressing informatics issues in the fMRI research community, it may be expanded to address similar issues in other areas of neuroimaging. Objectives of NIfTI * Enhancement of existing informatics tools used widely in neuroimaging research * Dissemination of neuroimaging informatics tools and information about them * Community-based approaches to solving common problems, such as lack of interoperability of tools and data * Unique training activities and research career development opportunities to those in the tool-user and tool-developer communities * Research and development of the next generation of neuroimaging informatics tools

Abbreviations: NIfTI

Synonyms: NIfTI: Neuroimaging Informatics Technology Initiative, Neuroimaging Informatics Technology Initiative (NIfTI)

Resource Type: training resource, knowledge environment

Keywords: neuroimaging, neuroinformatics, technology, service, training, research, mri, fmri, software, algorithm or reusable library, c, computed tomography, developers, information resource, java, matlab, magnetic resonance, nifti, other information resource, pet, spect, software

Funding: NIH Blueprint for Neuroscience Research ;
NIMH ;
NINDS

Availability: Free, Freely available

Resource Name: Neuroimaging Informatics Technology Initiative

Resource ID: SCR_003141

Alternate IDs: nif-0000-00561

Alternate URLs: <http://www.nitrc.org/projects/nifti>

Old URLs: <http://www.bic.mni.mcgill.ca/nifti/>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260728T043140+0000

Ratings and Alerts

No rating or validation information has been found for Neuroimaging Informatics Technology Initiative.

No alerts have been found for Neuroimaging Informatics Technology Initiative.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 309 mentions in open access literature.

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

Wang L, et al. (2025) Predicting Pancreatic Ductal Adenocarcinoma Occurrence Up to 10 Years in Advance Using Features of the Main Pancreatic Duct in Pre-Diagnostic CT Scans. *Cancers*, 17(11).

Aksoy S, et al. (2025) A Web-Deployed, Explainable AI System for Comprehensive Brain Tumor Diagnosis. *Neurology international*, 17(8).

Choi BK, et al. (2025) Multimodal deep learning model for prediction of prognosis in central nervous system inflammation. *Brain communications*, 7(3), fcaf179.

Chen L, et al. (2025) Development of a non-contrast CT-based radiomics nomogram for early prediction of delayed cerebral ischemia in aneurysmal subarachnoid hemorrhage. *BMC medical imaging*, 25(1), 182.

Soleimani-Meigooni DN, et al. (2025) Calibration of multisite raters for prospective visual reads of amyloid PET scans. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(10), e70732.

Gordon SG, et al. (2025) Regional gray matter thickness correlations of the hearing and deaf feline brains. *Neuroimage. Reports*, 5(1), 100239.

T??lle M, et al. (2025) Real world federated learning with a knowledge distilled transformer for cardiac CT imaging. NPJ digital medicine, 8(1), 88.

Tie X, et al. (2025) Deep Learning for Longitudinal Gross Tumor Volume Segmentation in MRI-Guided Adaptive Radiotherapy for Head and Neck Cancer. Head and Neck Tumor Segmentation for MR-Guided Applications : First MICCAI Challenge, HNTS-MRG 2024, held in conjunction with MICCAI 2024, Marrakesh, Morocco, October 17, 2024, proceedings, 15273, 99.

Mukherjee S, et al. (2025) Pancreas segmentation using AI developed on the largest CT dataset with multi-institutional validation and implications for early cancer detection. Scientific reports, 15(1), 17096.

Liang C, et al. (2025) Construction of a mild cognitive impairment prediction model for Parkinson's disease patients on the basis of multimodal data. NPJ Parkinson's disease, 11(1), 318.

Li J, et al. (2025) Naturalistic fMRI and MEG recordings during viewing of a reality TV show. Scientific data, 12(1), 1809.

Schenkl S, et al. (2025) Automated body weight measurement using computed tomography. Scientific reports, 15(1), 36110.

Peoples JJ, et al. (2025) Finding Reproducible and Prognostic Radiomic Features in Variable Slice Thickness Contrast Enhanced CT of Colorectal Liver Metastases. The journal of machine learning for biomedical imaging, 2(UNSURE2023), 2326.

Liu F, et al. (2025) A radiomics and deep learning nomogram developed and validated for predicting no-collapse survival in patients with osteonecrosis after multiple drilling. BMC medical informatics and decision making, 25(1), 26.

Alijanpourotaghsara A, et al. (2025) B(RAIN)2-BRAIN integrated Resource for Anatomy and Intracranial Neurophysiology. Scientific data, 12(1), 442.

Hassan N, et al. (2025) Stacked CNN-based multichannel attention networks for Alzheimer disease detection. Scientific reports, 15(1), 5815.

Delgado-Ortet M, et al. (2025) Imaging-based assessment of response to olaparib in platinum-sensitive relapsed ovarian cancer patients. Frontiers in oncology, 15, 1546324.

Wang H, et al. (2025) Voxel-wise analysis of brain metastasis predilection sites in breast cancer by clinical features. Discover oncology, 16(1), 1781.

Alphonse S, et al. (2025) Federated learning with integrated attention multiscale model for brain tumor segmentation. Scientific reports, 15(1), 11889.

Kurt-Bayrakdar S, et al. (2025) Advancing periodontal diagnosis: harnessing advanced artificial intelligence for patterns of periodontal bone loss in cone-beam computed tomography. Dento maxillo facial radiology, 54(4), 268.