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: knowledge environment, training resource

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/

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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 349 mentions in open access literature.

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

Yang J, et al. (2026) Circular RNA PTPN4 Contributes to Blood-Brain Barrier Disruption during Early Epileptogenesis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(12), e02250.

Lombardo FL, et al. (2026) Mild cognitive impairment-to-Alzheimer's dementia progression risk: the contribution of the Interceptor project. Alzheimer's & dementia : the journal of the Alzheimer's Association, 22(4), e71204.

Ning X, et al. (2026) Role of disturbed structural connectivity network in patients with white matter lesions and cognitive impairment revealed by diffusion-tensor magnetic resonance imaging. The Journal of international medical research, 54(5), 3000605261431456.

Huang S, et al. (2026) A network-based EEG source imaging framework for noninvasive localization of epileptogenic zones in MRI-negative focal drug-resistant epilepsy. BMC neurology, 26(1), 86.

Sorby-Adams A, et al. (2026) Portable Low-Field Magnetic Resonance Imaging in People With Human Immunodeficiency Virus. Annals of clinical and translational neurology, 13(3), 537.

Zou Q, et al. (2026) Validation of an AI model for pediatric myelin maturation age assessment and benefits for junior radiologists. BMC medical imaging, 26(1).

Khodaei Dolouei M, et al. (2026) DefaceQA - automated quality assessment of brain MRI defacing software. BMC medical imaging, 26(1).

Ramachandran P, et al. (2026) An advanced automated pipeline for brain tumour segmentation on magnetic resonance imaging for gamma knife radiosurgery. Physics and imaging in radiation oncology, 39, 101010.

Umehara T, et al. (2026) Radiomics-based preoperative survival prediction in newly diagnosed glioblastoma: A multicohort study with internal and external validation. Neuro-oncology advances, 8(1), vdag068.

Yu H, et al. (2026) Automated L3 Skeletal Muscle Segmentation for the Evaluation of Sarcopenia: Development and Independent Validation of an Ensemble-Based 2D nnU-Net Pipeline in a Complex Liver Disease Cohort. Muscles (Basel, Switzerland), 5(2).

Çelik Özen D, et al. (2026) Segmentation of Cemento-Osseous Dysplasias Using an Artificial Intelligence Algorithm. International dental journal, 76(2), 109340.

Park HS, et al. (2026) Metabolic syndrome severity and the energetic cost of brain network transitions: A normative modeling study of accelerated brain aging. Imaging neuroscience (Cambridge, Mass.), 4.

Ghimu? C, et al. (2026) Multimodal Autoencoder-Based Anomaly Detection Reveals Clinical-Radiologic Heterogeneity in Pulmonary Fibrosis. Medical sciences (Basel, Switzerland), 14(1).

Gennari AG, et al. (2026) Arterial spin labeling performs comparably to 2-[18F]fluoro-2-deoxy-D-glucose positron emission tomography for presurgical evaluation in pediatric lesional epilepsy. Epilepsia, 67(6), 2940.

Seo M, et al. (2026) Deep Learning for Automated Tumor Segmentation of Rectal Cancer on T2-Weighted Magnetic Resonance Images. Yonsei medical journal, 67(4), 358.

Narula V, et al. (2026) The impact of balance exercise on brain age and brain morphometry: insights from MRI analysis. Aging clinical and experimental research, 38(1), 71.

Rallios D, et al. (2026) Cerebrovascular CTA radiomics for objective collateral grading in acute ischemic stroke. European radiology experimental, 10(1).

Naros G, et al. (2026) Voxel-based spatial distribution of intracranial meningioma subtypes and their relationship to radiogenomic maps. Brain communications, 8(1), fcag025.

Park J, et al. (2026) Free Water Elevation in Alzheimer's Disease: Influence of Amyloid-Beta Deposition Beyond Brain Cell Loss. Journal of Korean medical science, 41(9), e82.

Shimizu T, et al. (2026) A voxel-based quantitative framework for analyzing the spatial redistribution and directionality of recurrence in glioblastoma. Journal of neuro-oncology, 177(1), 8.