Resource Summary Report

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MIPAV: Medical Image Processing and Visualization

RRID:SCR_007371
Type: Tool

Proper Citation

MIPAV: Medical Image Processing and Visualization (RRID:SCR_007371)

Resource Information

URL: http://mipav.cit.nih.gov

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Description: A Java-based application that enables quantitative analysis and visualization of medical images of numerous modalities such as DTI, PET, MRI, CT, or microscopy. Using MIPAV's standard user-interface and analysis tools, researchers at remote sites (via the internet) can easily share research data and analyses, thereby enhancing their ability to research, diagnose, monitor, and treat medical disorders. MIPAV can be run on any Java-enabled platform such as Windows, UNIX, or Macintosh OS X. Functionality includes segmentation, inter- and intra multi-modality registration, surface rendering, volume rendering and reading and writing a large number of biomedical file formats including: DICOM 3.0, Analyze, NIFTI, SPM, MINC, Phillips, GE, Zeiss, Biorad, jpeg, png, tiff, mrc, fits, interfile, and many more.

Abbreviations: MIPAV

Synonyms: Medical Image Processing Analysis and Visualization

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

Keywords: atlas, birn, nifti, registration software, segmentation software, surface analysis, visualization, volume, warping, data sharing platform, imaging software, java, pet, mri, computed tomography, microscopy, dti, simulation, volumetric analysis, segmentation, colocalization, frequency domain, resampling, spatial convolution, deconvolution, diffusion mr fiber tracking, animation, image display, surface rendering, volume rendering, fiber tracking, visualization, registration, surface analysis, volume, warping, data sharing, spect, mesh generation, simulation, registration, resampling, fiber tracking, magnetic resonance

Funding: Center for Information Technology

Availability: Source Code Use License

Resource Name: MIPAV: Medical Image Processing and Visualization

Resource ID: SCR_007371

Alternate IDs: nif-0000-00329

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

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260801T190320+0000

Ratings and Alerts

No rating or validation information has been found for MIPAV: Medical Image Processing and Visualization.

No alerts have been found for MIPAV: Medical Image Processing and Visualization.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 227 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Dodd S, et al. (2025) Field switching of microfabricated metamagnetic FeRh MRI contrast agents. Scientific reports, 15(1), 2779.

Bolton CJ, et al. (2025) Mild kidney dysfunction affects the predictive accuracy of blood-based biomarkers for neuropsychological and neuroimaging outcomes over a 9 year follow-up period. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(9), e70651.

Scafidi S, et al. (2025) Longitudinal Brain Structural, Neurochemical, and Behavioral Changes Following Traumatic Brain Injury in Immature Rat Brain with ALCAR Treatment. Neurochemical research, 50(4), 256.

Pirwass A, et al. (2025) Automatability and validity of methods for the quantification of intra-/Intermuscular adipose tissue in conventional MRI: a systematic review. BMC medical imaging, 25(1), 499.

Toubasi AA, et al. (2025) Improving the Detection of Myelin Integrity in Multiple Sclerosis Using Selective Inversion Recovery for MRI With Quantitative Magnetization Transfer. Journal of magnetic resonance imaging : JMRI, 61(6), 2444.

Toubasi A, et al. (2025) Parasagittal dural space and arachnoid granulations morphology in pre-clinical and early clinical multiple sclerosis. Multiple sclerosis (Houndmills, Basingstoke, England), 31(11), 1326.

Caramia F, et al. (2025) Structural alterations in occipital cortices in trigeminal neuralgia: a voxel- and surface-based morphometric MRI study. The journal of headache and pain, 26(1), 162.

Obied B, et al. (2025) In Vivo Imaging of Cobalt-Induced Ocular Toxicity in a Mouse Model. Methods and protocols, 8(1).

Cipolotti L, et al. (2025) Cognitive control & the anterior cingulate cortex: Necessity & coherence. Cortex; a journal devoted to the study of the nervous system and behavior, 182, 87.

Xue Y, et al. (2025) Distinct outcomes from targeted perturbations of the multi-subunit SCFSkp2 E3 ubiquitin ligase in blocking Trp53/Rb1-null prostate tumorigenesis. Communications biology, 8(1), 278.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. Neuroradiology, 67(7), 1649.

Kang P, et al. (2025) MRI signatures associated with active ischemia and disease severity in cerebral small vessel disease. Neuroimage. Reports, 5(3), 100281.

Ziccardi S, et al. (2024) CSF Parvalbumin Levels at Multiple Sclerosis Diagnosis Predict Future Worse Cognition, Physical Disability, Fatigue, and Gray Matter Damage. Neurology(R) neuroimmunology & neuroinflammation, 11(6), e200301.

Lev R, et al. (2024) Development of a local controlled release system for therapeutic proteins in the treatment of skeletal muscle injuries and diseases. Cell death & disease, 15(7), 470.

Liu L, et al. (2024) High iron in mouse olfactory ensheathing cells at the glia limitans in the olfactory bulb underlies MRI T 2 * hypointensity. Imaging neuroscience (Cambridge, Mass.), 2.

Tang Y, et al. (2024) Multimodal diagnosis model of Alzheimer's disease based on improved Transformer. Biomedical engineering online, 23(1), 8.

Mosharov EV, et al. (2024) A Human Brain Map of Mitochondrial Respiratory Capacity and Diversity. bioRxiv : the preprint server for biology.

Carass A, et al. (2024) Image harmonization improves consistency of intra-rater delineations of MS lesions in heterogeneous MRI. Neuroimage. Reports, 4(1).

Fan F, et al. (2024) Development and validation of a multimodal deep learning framework for vascular cognitive impairment diagnosis. iScience, 27(10), 110945.

Singh G, et al. (2024) -New frontiers in domain-inspired radiomics and radiogenomics: increasing role of molecular diagnostics in CNS tumor classification and grading following WHO CNS-5 updates. Cancer imaging : the official publication of the International Cancer Imaging Society, 24(1), 133.