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

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: 20260905T132610+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 245 mentions in open access literature.

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

Zhang J, et al. (2026) UNISELF: A unified network with instance normalization and self-ensembled lesion fusion for multiple sclerosis lesion segmentation. Medical image analysis, 109, 103954.

Cicia A, et al. (2026) Paramagnetic Rim Lesions in Highly Active Multiple Sclerosis at the Time of Disease Diagnosis: Prevalence Data and Clinical Implications. European journal of neurology, 33(3), e70573.

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

Abdi S, et al. (2025) Diagnostic Performance of Quantitative Computed Tomography Pulmonary Angiography Parameters in Patients With Pulmonary Embolism. Pulmonary medicine, 2025, 9038741.

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.

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.

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.

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.

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.

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

Nejati SF, et al. (2025) Morphological and functional alterations in type 2 diabetes pancreata assessed with MRI-based metrics and [18F]FP-(+)-DTBZ PET. Frontiers in endocrinology, 16, 1724340.

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

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.

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.

Mosharov EV, et al. (2024) A Human Brain Map of Mitochondrial Respiratory Capacity and Diversity. Research square.

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.

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.