

Resource Summary Report

Generated by [dkNET](#) on Aug 6, 2026

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

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: 20260806T054440+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 [dkNET](#) .

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.

- 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.
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- 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 T2 * 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.