# 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:** source code, image analysis software, data visualization software, software resource, software application, 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:** 20250521T061147+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 214 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.

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

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.

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.

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

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

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.

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

Virostko J, et al. (2024) Longitudinal Assessment of Pancreas Volume by MRI Predicts Progression to Stage 3 Type 1 Diabetes. Diabetes care, 47(3), 393.

Sariyeva M, et al. (2024) Primary and Secondary Intracerebral Hemorrhage in Pregnant and Nonpregnant Young Adults by SMASH-UP Criteria. Journal of the American Heart Association, 13(7), e034032.

Wang Y, et al. (2024) Intracranial aneurysms in sickle cell disease are associated with hemodynamic stress and anemia. Blood advances, 8(18), 4823.

Oh H, et al. (2024) Constructing the KOR152 Korean Young Adult Brain Atlas Utilizing the State-of-the-Art Method for the Age-Specific Population. Psychiatry investigation, 21(6), 664.

Kloosterman DJ, et al. (2024) Macrophage-mediated myelin recycling fuels brain cancer malignancy. Cell, 187(19), 5336.

Wei S, et al. (2024) Shape-changing electrode array for minimally invasive large-scale intracranial brain activity mapping. Nature communications, 15(1), 715.

Toubasi AA, et al. (2024) Chronic active lesions preferentially localize in watershed territories in multiple sclerosis. Annals of clinical and translational neurology, 11(11), 2912.

Knoll C, et al. (2024) Age-related differences in human cortical microstructure depend on the distance to the nearest vein. Brain communications, 6(5), fcae321.

Cipolotti L, et al. (2023) Graph lesion-deficit mapping of fluid intelligence. Brain : a journal of neurology, 146(1), 167.

Picca A, et al. (2023) Relationship between Mitochondrial Quality Control Markers, Lower Extremity Tissue Composition, and Physical Performance in Physically Inactive Older Adults. Cells, 12(1).

Marzi C, et al. (2023) Prediction of the information processing speed performance in multiple sclerosis using a machine learning approach in a large multicenter magnetic resonance imaging data set. Human brain mapping, 44(1), 186.

Ying C, et al. (2023) Neuroinflammation and amyloid deposition in the progression of mixed Alzheimer and vascular dementia. NeuroImage. Clinical, 38, 103373.