

Resource Summary Report

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ITK-SNAP

RRID:SCR_017341

Type: Tool

Proper Citation

ITK-SNAP (RRID:SCR_017341)

Resource Information

URL: <http://www.itksnap.org/pmwiki/pmwiki.php>

Proper Citation: ITK-SNAP (RRID:SCR_017341)

Description: Software as open source, multiplatform tool used to segment structures in 3D medical images.

Resource Type: image analysis software, software resource, software application, segmentation software, data processing software

Defining Citation: [PMID:16545965](#)

Keywords: multiplatform, segment, sturcture, 3D, medical, image

Funding: NIBIB R01 EB014346

Availability: Free, Available for download, Freely available

Resource Name: ITK-SNAP

Resource ID: SCR_017341

Alternate URLs: <https://sources.debian.org/src/itksnap/>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260728T043531+0000

Ratings and Alerts

No rating or validation information has been found for ITK-SNAP.

No alerts have been found for ITK-SNAP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 619 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Ma Y, et al. (2025) Nomogram based on CT imaging and clinical data to predict the efficacy of PD-1 inhibitors combined with chemotherapy in advanced gastric cancer. *Frontiers in immunology*, 16, 1504387.

Newman HR, et al. (2025) Effective disc age: a statistical model for age-dependent and level-specific lumbar disc degeneration using magnetic resonance imaging (MRI). *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*, 34(5), 1697.

Ren J, et al. (2025) Noncontrast MRI-based machine learning and radiomics signature can predict the severity of primary lower limb lymphedema. *Journal of vascular surgery. Venous and lymphatic disorders*, 13(2), 102161.

Zhang Z, et al. (2025) Identification of Depression Subtypes in Parkinson's Disease Patients via Structural MRI Whole-Brain Radiomics: An Unsupervised Machine Learning Study. *CNS neuroscience & therapeutics*, 31(2), e70182.

Wang M, et al. (2025) Detecting B-cell lymphoma-6 overexpression status in primary central nervous system lymphoma using multiparametric MRI-based machine learning. *Neuroradiology*, 67(3), 563.

Cannet F, et al. (2025) Tracing specificity of immune landscape remodeling associated with distinct anticancer treatments. *iScience*, 28(3), 112071.

Wu SY, et al. (2025) Bi-parametric MRI-based quantification radiomics model for the noninvasive prediction of histopathology and biochemical recurrence after prostate cancer surgery: a multicenter study. *Abdominal radiology (New York)*, 50(9), 4320.

Simarro J, et al. (2025) Automatic brain quantification in children with unilateral cerebral palsy. *Frontiers in neuroscience*, 19, 1540480.

Khiabani E, et al. (2025) Evaluating the Monroe-Kellie Doctrine: Contralateral Hemisphere Shrinkage in Intracerebral Hemorrhage Patients. *Translational stroke research*, 16(5), 1447.

Goller SS, et al. (2025) Assessment of calf muscle constitution in chronic Achilles tendon disease using Dixon-based MRI. *Skeletal radiology*, 54(7), 1457.

Luo S, et al. (2025) Intratumoral and peritumoral ultrasound-based radiomics for preoperative prediction of HER2-low breast cancer: a multicenter retrospective study.

Insights into imaging, 16(1), 53.

Mao Y, et al. (2025) Assessments of lung nodules by an artificial intelligence chatbot using longitudinal CT images. *Cell reports. Medicine*, 6(3), 101988.

Yin P, et al. (2025) Development and evaluation of a deep learning framework for pelvic and sacral tumor segmentation from multi-sequence MRI: a retrospective study. *Cancer imaging : the official publication of the International Cancer Imaging Society*, 25(1), 34.

Chen W, et al. (2025) Intratumoral and peritumoral CT radiomics in predicting anaplastic lymphoma kinase mutations and survival in patients with lung adenocarcinoma: a multicenter study. *Cancer imaging : the official publication of the International Cancer Imaging Society*, 25(1), 35.

Gong M, et al. (2025) Decoding tinnitus progression: neurochemical shifts in the anterior cingulate cortex revealed by magnetic resonance spectroscopy. *Frontiers in neuroscience*, 19, 1551106.

Wu Y, et al. (2025) Evaluation of a novel ensemble model for preoperative ovarian cancer diagnosis: Clinical factors, O-RADS, and deep learning radiomics. *Translational oncology*, 54, 102335.

Han Y, et al. (2025) Automatic segmentation and volume measurement of anterior visual pathway in brain 3D-T1WI using deep learning. *Frontiers in medicine*, 12, 1530361.

Xie K, et al. (2025) Multiparameter MRI-based model integrating radiomics and deep learning for preoperative staging of laryngeal squamous cell carcinoma. *Scientific reports*, 15(1), 16239.

Li Y, et al. (2025) Pretreatment CT-Based Machine Learning Radiomics Model Predicts Response in Inoperable Stage III NSCLC Treated with Concurrent Radiochemotherapy Plus PD-1 Inhibitors. *Technology in cancer research & treatment*, 24, 15330338251351109.

Bejar AM, et al. (2025) Multi-center evaluation of radiomics and deep learning to stratify malignancy risk of IPMNs. *Research square*.