

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

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 [SPARC SAWG](#) .

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.

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.

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.

Lopez-Preza FI, et al. (2025) Subchronic Intranasal Administration of NeuroEPO Reduces Long-Term Consequences of Severe Traumatic Brain Injury in Male Rats. *Antioxidants (Basel, Switzerland)*, 14(6).

Zhang H, et al. (2025) MultiCubeNet: Multitask deep learning for molecular subtyping and prognostic prediction in gliomas. *Neuro-oncology advances*, 7(1), vda079.

Tan M, et al. (2025) PerioAI: A digital system for periodontal disease diagnosis from an intra-oral scan and cone-beam CT image. *Cell reports. Medicine*, 6(6), 102186.

Huang S, et al. (2025) Mutation in the rat interleukin 34 gene impacts macrophage development, homeostasis, and inflammation. *Life science alliance*, 8(9).

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.

Liu S, et al. (2025) CT delta-radiomics predicts the risks of blood transfusion and massive bleeding during spinal tumor surgery. *Cancer imaging : the official publication of the International Cancer Imaging Society*, 25(1), 79.

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.

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.

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

Li F, et al. (2025) Prediction of 1p/19q state in glioma by integrated deep learning method based on MRI radiomics. *BMC cancer*, 25(1), 1228.

Huang W, et al. (2025) Development of a population of digital brain phantoms for radionuclide imaging research in Parkinson's disease. *EJNMMI physics*, 12(1), 74.

Huang X, et al. (2025) Integrative habitat analysis and multi-instance deep learning for predictive model of PD-1/PD-L1 immunotherapy efficacy in NSCLC patients: a dual-center retrospective study. *BMC medical imaging*, 25(1), 288.

Zhu J, et al. (2025) Sub-regional radiomics combining multichannel 2-dimensional or 3-dimensional deep learning for predicting neoadjuvant chemo-immunotherapy response in esophageal squamous cell carcinoma: a multicenter study. *NPJ precision oncology*, 9(1), 248.

Wang R, et al. (2025) PXseg: automatic tooth segmentation, numbering and abnormal morphology detection based on CBCT and panoramic radiographs. *BMC oral health*, 25(1), 1230.

Liu W, et al. (2025) Extracellular volume fraction quantification by equilibrium contrast-enhanced CT via automated segmentation predicts survival outcomes in bladder cancer: a propensity score-matched study. *Annals of medicine*, 57(1), 2534856.

Xie X, et al. (2025) Automatic recognition of adrenal incidentalomas using a two-stage cascade network: a multicenter study. *Annals of medicine*, 57(1), 2540596.