

Resource Summary Report

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Insight Toolkit

RRID:SCR_024040

Type: Tool

Proper Citation

Insight Toolkit (RRID:SCR_024040)

Resource Information

URL: <https://itk.org/>

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Description: Open source, software cross-platform library that provides suite of software tools for image analysis. ITK builds on proven, spatially-oriented architecture for processing, segmentation, and registration of scientific images in two, three, or more dimensions.

Synonyms: ITK, insighttoolkit4

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

Keywords: image analysis, 2D, 3D, images

Availability: Free, Freely available

Resource Name: Insight Toolkit

Resource ID: SCR_024040

Alternate URLs: <https://sources.debian.org/src/insighttoolkit4/>,
<https://github.com/InsightSoftwareConsortium/ITK>

License: Apache-2.0 license

Record Creation Time: 20230824T050211+0000

Record Last Update: 20260829T182832+0000

Ratings and Alerts

No rating or validation information has been found for Insight Toolkit.

No alerts have been found for Insight Toolkit.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Arba F, et al. (2026) Factors associated with hematoma expansion in deep versus lobar intracerebral haemorrhage: a multicentre observational study. *European stroke journal*, 11(2).

Meng Z, et al. (2025) Age- and Sex-Specific Cerebral Blood Flow Atlases for Healthy Brain Across the Lifespan. *Scientific data*, 12(1), 1169.

Thummerer A, et al. (2025) SynthRAD2025 Grand Challenge dataset: Generating synthetic CTs for radiotherapy from head to abdomen. *Medical physics*, 52(7), e17981.

Cheng J, et al. (2025) Developing a predictive model for the efficacy of neoadjuvant chemoradiotherapy in locally advanced rectal cancer using multiparametric magnetic resonance imaging: An innovative approach. *Medicine*, 104(49), e46209.

Cai C, et al. (2025) Imaging-Based Prediction of Ki-67 Expression in Hepatocellular Carcinoma: A Retrospective Study. *Cancer medicine*, 14(4), e70562.

Xing S, et al. (2025) Deep regression 2D-3D ultrasound registration for liver motion correction in focal tumour thermal ablation. *Healthcare technology letters*, 12(1), e12117.

Wells RC, et al. (2025) Dual targeting of transferrin receptor and CD98hc enhances brain exposure of large molecules. *Cell reports*, 44(8), 116038.

McFaline-Figueroa JR, et al. (2024) Neoadjuvant anti-PD1 immunotherapy for surgically accessible recurrent glioblastoma: clinical and molecular outcomes of a stage 2 single-arm expansion cohort. *Nature communications*, 15(1), 10757.

Nypan E, et al. (2024) Endovascular navigation in patients: vessel-based registration of electromagnetic tracking to preoperative images. *Frontiers in radiology*, 4, 1320535.

Cromb?? A, et al. (2024) Integration of pre-treatment computational radiomics, deep radiomics, and transcriptomics enhances soft-tissue sarcoma patient prognosis. *NPJ precision oncology*, 8(1), 129.

Low VF, et al. (2024) Visualizing the human olfactory projection and ancillary structures in a 3D reconstruction. *Communications biology*, 7(1), 1467.

Simpson ES, et al. (2024) Development and validation of a surgical planning tool for bone-conduction implants. *Heliyon*, 10(5), e27436.

Galbusera F, et al. (2024) Image annotation and curation in radiology: an overview for machine learning practitioners. *European radiology experimental*, 8(1), 11.

Li Y, et al. (2024) Prediction of the axillary lymph-node metastatic burden of breast cancer by 18F-FDG PET/CT-based radiomics. *BMC cancer*, 24(1), 704.

Chen G, et al. (2024) PSFHS: Intrapartum ultrasound image dataset for AI-based segmentation of pubic symphysis and fetal head. *Scientific data*, 11(1), 436.

Wang C, et al. (2024) A multimodal deep learning approach for the prediction of cognitive decline and its effectiveness in clinical trials for Alzheimer's disease. *Translational psychiatry*, 14(1), 105.

Zhao J, et al. (2024) Development and validation of intravoxel incoherent motion diffusion weighted imaging-based model for preoperative distinguishing nuclear grade and survival of clear cell renal cell carcinoma complicated with venous tumor thrombus. *Cancer imaging : the official publication of the International Cancer Imaging Society*, 24(1), 164.

Liu Z, et al. (2023) Radiomic features from multiparametric magnetic resonance imaging predict molecular subgroups of pediatric low-grade gliomas. *BMC cancer*, 23(1), 848.

Jun EK, et al. (2023) Augmented Reality-Assisted Navigation System for Transforaminal Epidural Injection. *Journal of pain research*, 16, 921.

Yang L, et al. (2023) Value of a combined magnetic resonance imaging-based radiomics-clinical model for predicting extracapsular extension in prostate cancer: a preliminary study. *Translational cancer research*, 12(7), 1787.