

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: image analysis software, software application, data processing software, 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: 20260801T042917+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 14 mentions in open access literature.

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

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

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

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.

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

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.

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.

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

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.

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.

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.

Liu HF, et al. (2023) nextPYP: a comprehensive and scalable platform for characterizing protein variability in situ using single-particle cryo-electron tomography. *Nature methods*, 20(12), 1909.