

Resource Summary Report

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SimpleITK

RRID:SCR_024693

Type: Tool

Proper Citation

SimpleITK (RRID:SCR_024693)

Resource Information

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

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Description: Open source software library for multi dimensional image analysis in Python, R, Java, C#, Lua, Ruby, TCL and C++. New interface to Insight Segmentation and Registration Toolkit (ITK) designed to facilitate rapid prototyping, education and scientific activities via high level programming languages. Provides easy to use and simplified interface to ITK's algorithms.

Synonyms: Simple Insight Segmentation and Registration Toolkit

Resource Type: software library, software resource, software toolkit

Defining Citation: [PMID:24416015](#)

Keywords: multi dimensional image analysis, Insight Segmentation and Registration Toolkit,

Funding: NLM

Availability: Free, Available for download, Freely available

Resource Name: SimpleITK

Resource ID: SCR_024693

Alternate URLs: <https://github.com/SimpleITK/SimpleITK>

License: Apache License Version 2.0

Record Creation Time: 20231115T050219+0000

Record Last Update: 20260905T133109+0000

Ratings and Alerts

No rating or validation information has been found for SimpleITK.

No alerts have been found for SimpleITK.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 69 mentions in open access literature.

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

Hong T, et al. (2026) Causal inference of glucocorticoid signaling in non-small cell lung cancer: integrating Mendelian randomization, single-cell transcriptomics, and imaging data. NPJ precision oncology, 10(1).

Wang X, et al. (2026) Transformer-Based Deep Learning Model for Predicting Recurrence in High-Grade Glioma. Cancer medicine, 15(5), e71740.

Gao R, et al. (2026) An interpretable machine learning approach using nnU-Net-based radiomics for preoperative risk stratification of thymic epithelial tumors: a multicenter study. BMC medical imaging, 26(1).

Wang J, et al. (2026) Anatomical effects of ablation of the anterior retina in small animal eyes. BMC ophthalmology, 26(1).

Borowska M, et al. (2026) Machine learning using entropy-based texture features from MRI to differentiate histological subtypes of non-small cell lung cancer identified as metabolically active on PET/MRI. PloS one, 21(1), e0338373.

Chen Y, et al. (2026) Integrated analysis of radiomics and RNA reveals the biological basis and therapeutic implications of aggressive hepatocellular carcinoma subtypes. NPJ precision oncology, 10(1), 28.

David MA, et al. (2026) Demystifying machine learning approaches in digital bone imaging using microCT and HRpQCT. Bone reports, 29, 101911.

Gong X, et al. (2026) Transferring thrombus labels from CTPA to non-contrast CT via accurate pulmonary vessel registration: a critical step toward AI-based pulmonary embolism detection. Quantitative imaging in medicine and surgery, 16(5), 365.

Maltez VI, et al. (2026) Agonistic anti-CD40 antibody treatment converts resident regulatory T cells into activated type 1 effectors within the tumor microenvironment. Immunity, 59(4), 1058.

Arinel M, et al. (2026) Gut distension evokes rapid neural dynamics in vagal and hindbrain populations of larval zebrafish. *iScience*, 29(6), 116206.

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

Lin H, et al. (2025) Multimodal deep learning-based radiomics for meningioma consistency prediction: integrating T1 and T2 MRI in a multi-center study. *BMC medical imaging*, 25(1), 216.

Henyš P, et al. (2025) BoneDat, a database of standardized bone morphology for in silico analyses. *Scientific data*, 12(1), 1043.

Küppers F, et al. (2025) Brain Tumor Characterization Using Multiple MR Parameters From Multi-Contrast EPI With Keyhole (GE-SE EPIK) Including Oxygen Extraction Fraction: A Comparison to O-(2-[18F]Fluoroethyl)-L-Tyrosine (FET) Positron Emission Tomography. *Journal of magnetic resonance imaging : JMRI*, 62(3), 721.

Ma R, et al. (2025) Automatic measurement and reference values setting of intracranial cerebrospinal fluid volume: a large-scale analysis of computed tomography images. *Quantitative imaging in medicine and surgery*, 15(7), 6185.

Antonowicz B, et al. (2025) Assessment of Radiographic Image Texture in the Maxilla and Mandible Around Titanium Inserts Used for Osteosynthesis of Dentofacial Deformities. *Journal of functional biomaterials*, 17(1).

Cao Z, et al. (2025) Autonomous surgical planning of mandibular angle reduction based on anatomical landmarks and osteotomy plane detection. *Scientific reports*, 15(1), 5842.

Sun L, et al. (2025) Characterization of brain metastases from lung cancer using percentage-wise quantification of intratumoral susceptibility signals. *Quantitative imaging in medicine and surgery*, 15(6), 5373.

Hermet L, et al. (2025) IntegrAlign: a comprehensive tool for multi-immunofluorescence panel integration through image alignment. *Bioinformatics (Oxford, England)*, 41(11).

Radovic T, et al. (2025) Longitudinal assessment of renal allograft function in donors and pediatric recipients by arterial spin labeling MRI perfusion quantification. *Scientific reports*, 15(1), 38809.