

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 toolkit, software resource

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: 20260803T040907+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 37 mentions in open access literature.

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

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

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.

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

Cao B, et al. (2025) Preoperative prediction of the Lauren classification in gastric cancer using automated nnU-Net and radiomics: a multicenter study. Insights into imaging, 16(1), 48.

Kong C, et al. (2025) Multiple deep learning models based on MRI images in discriminating glioblastoma from solitary brain metastases: a multicentre study. BMC medical imaging, 25(1), 171.

Lu D, et al. (2025) MRI Radiomics to Predict Early Treatment Response to TACE Combined with Lenvatinib Plus a PD-1 Inhibitor for Hepatocellular Carcinoma with Portal Vein Tumor Thrombus. Journal of hepatocellular carcinoma, 12, 985.

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.

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

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.

Schienstock D, et al. (2025) Cecelia: a multifunctional image analysis toolbox for decoding spatial cellular interactions and behaviour. *Nature communications*, 16(1), 1931.

Qu H, et al. (2025) Radiomic study of common sellar region lesions differentiation in magnetic resonance imaging based on multi-classification machine learning model. *BMC medical imaging*, 25(1), 147.

Long Y, et al. (2025) CT based quantification of intratumoral and peritumoral heterogeneity for diagnosing lymphovascular invasion for early stage non-small cell lung cancer. *BMC medical imaging*, 25(1), 505.

Won J, et al. (2025) Enhancing 3D dopamine transporter imaging as a biomarker for Parkinson's disease via self-supervised learning with diffusion models. *Cell reports. Medicine*, 6(7), 102207.

Velazquez-Rivera E, et al. (2025) Specific targeting of brain endothelial cells using enhancer AAV vectors. *Neuron*, 113(10), 1562.

Long Z, et al. (2025) Intravital observation of neuronal and immune cell dynamics in the developing mammalian brain. *Cell*.

Zhang Q, et al. (2024) Automated measurement of lumbar pedicle screw parameters using deep learning algorithm on preoperative CT scans. *Journal of bone oncology*, 47, 100627.

Joham SJ, et al. (2024) Implicit Is Not Enough: Explicitly Enforcing Anatomical Priors inside Landmark Localization Models. *Bioengineering (Basel, Switzerland)*, 11(9).

Zhang H, et al. (2024) An interpretable artificial intelligence model based on CT for prognosis of intracerebral hemorrhage: a multicenter study. *BMC medical imaging*, 24(1), 170.

Zhao E, et al. (2024) MRI radiomics-based interpretable model and nomogram for preoperative prediction of Ki-67 expression status in primary central nervous system lymphoma. *Frontiers in medicine*, 11, 1345162.

Smit T, et al. (2024) In silico medical device testing of anatomically and mechanically conforming patient-specific spinal fusion cages designed by full-scale topology optimisation. *Frontiers in bioengineering and biotechnology*, 12, 1347961.