Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

elastix

RRID:SCR_009619
Type: Tool

Proper Citation

elastix (RRID:SCR_009619)

Resource Information

URL: http://elastix.isi.uu.nl/

Proper Citation: elastix (RRID:SCR_009619)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on February 23,2023. Software toolbox for rigid and nonrigid registration of images. elastix is open source software, based on the well-known Insight Segmentation and Registration Toolkit (ITK). The software consists of a collection of algorithms that are commonly used to solve (medical) image registration problems. The modular design of elastix allows the user to quickly configure, test, and compare different registration methods for a specific application. A command-line interface enables automated processing of large numbers of data sets, by means of scripting. A paper describing elastix contains more details: S. Klein, M. Staring, K. Murphy, M.A. Viergever, J.P.W. Pluim, elastix: a toolbox for intensity based medical image registration,; IEEE Transactions on Medical Imaging, vol. 29, no. 1, pp. 196 - 205, January 2010., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: elastix

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

Defining Citation: PMID:19923044

Keywords: reusable library, analyze, c++, console (text based), domain independent, nifti, nrrd, os independent, philips par/rec, registration, resampling, spatial transformation, bio.tools

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: elastix

Resource ID: SCR_009619

Alternate IDs: nlx_155845, biotools:elastix

Alternate URLs: http://www.nitrc.org/projects/elastix, https://bio.tools/elastix, https://sources.debian.org/src/elastix/

Record Creation Time: 20220129T080254+0000

Record Last Update: 20260912T195714+0000

Ratings and Alerts

No rating or validation information has been found for elastix.

No alerts have been found for elastix.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 175 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Zeng W, et al. (2026) Association of neurite orientation dispersion and density imaging with cognitive impairment in nasopharyngeal carcinoma patients with radiation-induced temporal lobe injury. Frontiers in human neuroscience, 20, 1809205.

Dhawan S, et al. (2026) A neural connectivity atlas for fly flight control. Current biology : CB, 36(3), 660.

Caldarelli M, et al. (2026) Pupillometry and brain-wide c-Fos mapping uncover multimodal mirror emotional contagion related networks of mice. iScience, 29(2), 114827.

Guilloux G, et al. (2025) Fixation and Expansion Microscopy of Xenopus Egg Extract Spindles. Bio-protocol, 15(14), e5396.

Carey H, et al. (2025) DeMBA: a developmental atlas for navigating the mouse brain in space and time. Nature communications, 16(1), 8108.

Guo Y, et al. (2025) Deformable registration for nasopharyngeal carcinoma using adaptive mask and weight allocation strategy based CycleFCNs model. Radiation oncology (London, England), 20(1), 26.

Guilloux G, et al. (2025) Optimized expansion microscopy reveals species-specific spindle microtubule organization in Xenopus egg extracts. Molecular biology of the cell, 36(6), ar73.

Ristic M, et al. (2025) First in-vivo magic angle directional imaging using dedicated low-field MRI. Magnetic resonance in medicine, 93(3), 1077.

Mendelsohn AI, et al. (2025) Segregated basal ganglia output pathways correspond to genetically divergent neuronal subclasses. Cell reports, 44(4), 115454.

Manjila SB, et al. (2025) Brain-wide connectivity and novelty response of the dorsal endopiriform nucleus in mice. Cell reports, 44(7), 115827.

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

Zimmerman CA, et al. (2024) A neural mechanism for learning from delayed postingestive feedback. bioRxiv : the preprint server for biology.

Pruis IJ, et al. (2024) Potential of PSMA-targeting radioligand therapy for malignant primary and secondary brain tumours using super-selective intra-arterial administration: a single centre, open label, non-randomised prospective imaging study. EBioMedicine, 102, 105068.

Dubec MJ, et al. (2024) Oxygen-Enhanced MRI Detects Incidence, Onset, and Heterogeneity of Radiation-Induced Hypoxia Modification in HPV-Associated Oropharyngeal Cancer. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(24), 5620.

He L, et al. (2024) Differentiation between high-grade gliomas and solitary brain metastases based on multidiffusion MRI model quantitative analysis. Frontiers in oncology, 14, 1401748.

Sieber V, et al. (2024) Automated assessment of brain MRIs in multiple sclerosis patients significantly reduces reading time. Neuroradiology, 66(12), 2171.

Uddin MN, et al. (2024) Tensor-valued diffusion MRI detects brain microstructure changes in HIV infected individuals with cognitive impairment. Research square.

Arabi H, et al. (2024) Contrastive Learning vs. Self-Learning vs. Deformable Data Augmentation in Semantic Segmentation of Medical Images. Journal of imaging informatics in medicine, 37(6), 3217.

G??ttsches AK, et al. (2024) Pre- and post-skeletal muscle biopsy quantitative magnetic resonance imaging reveals correlations with histopathological findings. European journal of neurology, 31(12), e16479.

Sushentsev N, et al. (2024) Metabolic imaging across scales reveals distinct prostate cancer phenotypes. Nature communications, 15(1), 5980.