3D Slicer
RRID:SCR_005619
Type: Tool

Proper Citation

3D Slicer (RRID:SCR_005619)

Resource Information

URL: http://slicer.org/

Description: A free, open source software package for visualization and image analysis including registration, segmentation, and quantification of medical image data. Slicer provides a graphical user interface to a powerful set of tools so they can be used by end-user clinicians and researchers alike. 3D Slicer is natively designed to be available on multiple platforms, including Windows, Linux and Mac Os X. Slicer is based on VTK (http://public.kitware.com/vtk) and has a modular architecture for easy addition of new functionality. It uses an XML-based file format called MRML - Medical Reality Markup Language which can be used as an interchange format among medical imaging applications. Slicer is primarily written in C++ and Tcl.

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

Keywords: birn, diffusion, functional, na-mic (ncbc), nifti-1 support, registration, segmentation, visualization, volume, warping

Resource ID: SCR_005619

Parent Organization: Harvard University; Cambridge; United States

Funding Agency: NCI, NCRR, NIBIB, NIH, Telemedicine and Advanced Technology Research Center, US Army

Related resources: Slicer3 Example Modules, Stereoscopic Atlas of Intrinsic Brain
Networks, vmtk in 3DSlicer, Diffusion Tractography with Kalman Filter, Fast Nonlocal Means for MRI denoising, SpineSegmentation module for 3DSlicer, Biolmage Suite, NA-MIC Kit, Hammer And WML Modules for 3D Slicer, ABC (Atlas Based Classification), ARCTIC, Finsler tractography module for Slicer, GAMBIT, GPU based affine registration, GTRACT, LEAD-DBS

Availability: 3D Slicer License

Website Status: Last checked up

Alternate IDs: nif-0000-00256

Alternate URLs: http://www.nitrc.org/projects/slicer

Abbreviations: Slicer

Mentions Count: 552

Ratings and Alerts

- 4.5 / 5 (6 votes) Rated at NITRC http://www.nitrc.org/projects/slicer

No alerts have been found for 3D Slicer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 552 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch Infrastructure.


Hwang Y, et al. (2020) Applicability of the masseter muscle as a nutritional biomarker. Medicine, 99(6), e19069.


