Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

ImageVis3D

RRID:SCR_009566
Type: Tool

Proper Citation

ImageVis3D (RRID:SCR_009566)

Resource Information

URL: http://www.imagevis3d.org/

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Description: A new volume rendering program developed by the NIH/NCRR Center for Integrative Biomedical Computing (CIBC). The main design goals of ImageVis3D are: simplicity, scalability, and interactivity. Simplicity is achieved with a new user interface that gives an unprecedented level of flexibility (as shown in the images). Scalability and interactivity for ImageVis3D mean that both on a notebook computer as well as on a high end graphics workstation, the user can interactively explore terabyte sized data sets. Finally, the open source nature as well as the strict component-by-component design allow developers not only to extend ImageVis3D itself but also reuse parts of it, such as the rendering core. This rendering core, for instance, is planned to replace the volume rendering subsystems in many applications at the SCI Institute and with their collaborators.

Abbreviations: ImageVis3D

Resource Type: data processing software, software application, software resource

Keywords: magnetic resonance, rendering

Funding: NCRR P41-RR12553-15;
DOE DEFC0206ER25781

Availability: Free, Available for download, Freely available

Resource Name: ImageVis3D

Resource ID: SCR_009566

Alternate IDs: nlx_155776

Alternate URLs: http://www.nitrc.org/projects/imagevis3d, https://sources.debian.org/src/imagevis3d/

License: MIT License

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260912T200059+0000

Ratings and Alerts

No rating or validation information has been found for ImageVis3D.

No alerts have been found for ImageVis3D.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Liu Y, et al. (2024) AI-based 3D analysis of retinal vasculature associated with retinal diseases using OCT angiography. Biomedical optics express, 15(11), 6416.

Fragiotta S, et al. (2021) Volume Rendering of Angiographic Optical Coherence Tomography Angiography in Fovea Plana and Normal Foveal Pit. Frontiers in neurology, 12, 633492.

Cavalazzi B, et al. (2021) Cellular remains in a ~3.42-billion-year-old subseafloor hydrothermal environment. Science advances, 7(29).

Huang JD, et al. (2020) Repeated evolution of durophagy during ichthyosaur radiation after mass extinction indicated by hidden dentition. Scientific reports, 10(1), 7798.

Constantin L, et al. (2020) Altered brain-wide auditory networks in a zebrafish model of fragile X syndrome. BMC biology, 18(1), 125.

Favre-Bulle IA, et al. (2018) Cellular-Resolution Imaging of Vestibular Processing across the Larval Zebrafish Brain. Current biology : CB, 28(23), 3711.

Kim MJ, et al. (2017) Characterization of 3D printing techniques: Toward patient specific quality assurance spine-shaped phantom for stereotactic body radiation therapy. PloS one, 12(5), e0176227.

Hafez A, et al. (2015) Col11a1 Regulates Bone Microarchitecture during Embryonic Development. Journal of developmental biology, 3(4), 158.

Bolin C, et al. (2012) Novel mouse mammary cell lines for in vivo bioluminescence imaging (BLI) of bone metastasis. Biological procedures online, 14(1), 6.

MacLeod RS, et al. (2009) Subject-specific, multiscale simulation of electrophysiology: a software pipeline for image-based models and application examples. Philosophical transactions. Series A, Mathematical, physical, and engineering sciences, 367(1896), 2293.