

Resource Summary Report

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VTK

RRID:SCR_015013

Type: Tool

Proper Citation

VTK (RRID:SCR_015013)

Resource Information

URL: <http://www.vtk.org>

Proper Citation: VTK (RRID:SCR_015013)

Description: Cross-platform visualization software system for 3D computer graphics, image processing, and data visualization. Various visualization algorithms and advanced modeling techniques are supported within VTK, as well as parallel processing and interoperability with select databases.

Synonyms: VTK 7.0.0, Visualization Toolkit, VTK 7.1

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

Keywords: open source visualization toolkit, visualization system, 3d computer graphics, image processing, FASEB list

Availability: Open source, Available for download, Acknowledgement requested

Resource Name: VTK

Resource ID: SCR_015013

Alternate URLs: <https://gitlab.kitware.com/vtk/vtk>

License: BSD License

License URLs: <http://www.vtk.org/licensing/>

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260905T132753+0000

Ratings and Alerts

No rating or validation information has been found for VTK.

No alerts have been found for VTK.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 98 mentions in open access literature.

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

Bertalan G, et al. (2026) Three-Dimensional quantitative analysis of the Peri-Enhancing zone reveals ADC and CBV signatures of glioblastoma recurrence. *NeuroImage. Clinical*, 49, 103977.

Yang Y, et al. (2026) Lamellar Normative Modelling of the Hippocampus Across the Human Lifespan. *bioRxiv : the preprint server for biology*.

Fumagalli I, et al. (2025) A reduced 3D-0D fluid-structure interaction model of the aortic valve that includes leaflet curvature. *Biomechanics and modeling in mechanobiology*, 24(4), 1169.

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.

Hofman J, et al. (2024) First-in-human real-time AI-assisted instrument deocclusion during augmented reality robotic surgery. *Healthcare technology letters*, 11(2-3), 33.

Heiland R, et al. (2024) PhysiCell Studio: a graphical tool to make agent-based modeling more accessible. *GigaByte (Hong Kong, China)*, 2024, gigabyte128.

Qi Z, et al. (2024) Head model dataset for mixed reality navigation in neurosurgical interventions for intracranial lesions. *Scientific data*, 11(1), 538.

Simpson ES, et al. (2024) Development and validation of a surgical planning tool for bone-conduction implants. *Heliyon*, 10(5), e27436.

Jun EK, et al. (2023) Augmented Reality-Assisted Navigation System for Transforaminal Epidural Injection. *Journal of pain research*, 16, 921.

Sun T, et al. (2023) Dbh+ catecholaminergic cardiomyocytes contribute to the structure and function of the cardiac conduction system in murine heart. *Nature communications*, 14(1), 7801.

Park BD, et al. (2023) Longitudinal Degradation of Pavement Marking Detectability for Mobile LiDAR Sensing Technology in Real-World Use. *Sensors (Basel, Switzerland)*, 23(13).

Nolte D, et al. (2023) 3D shape reconstruction of the femur from planar X-ray images using statistical shape and appearance models. *Biomedical engineering online*, 22(1), 30.

Park SH, et al. (2023) Patient-specific virtual three-dimensional surgical navigation for gastric cancer surgery: A prospective study for preoperative planning and intraoperative guidance. *Frontiers in oncology*, 13, 1140175.

Zolfaghari H, et al. (2023) Wall shear stress and pressure patterns in aortic stenosis patients with and without aortic dilation captured by high-performance image-based computational fluid dynamics. *PLoS computational biology*, 19(10), e1011479.

Rivière D, et al. (2022) Browsing Multiple Subjects When the Atlas Adaptation Cannot Be Achieved via a Warping Strategy. *Frontiers in neuroinformatics*, 16, 803934.

Ruckli AC, et al. (2022) Automated quantification of cartilage quality for hip treatment decision support. *International journal of computer assisted radiology and surgery*, 17(11), 2011.

Waldmann M, et al. (2022) An effective simulation- and measurement-based workflow for enhanced diagnostics in rhinology. *Medical & biological engineering & computing*, 60(2), 365.

Duetschler A, et al. (2022) Synthetic 4DCT(MRI) lung phantom generation for 4D radiotherapy and image guidance investigations. *Medical physics*, 49(5), 2890.

Qin Z, et al. (2022) Cereal grain 3D point cloud analysis method for shape extraction and filled/unfilled grain identification based on structured light imaging. *Scientific reports*, 12(1), 3145.

Berberoglu E, et al. (2021) In-silico study of accuracy and precision of left-ventricular strain quantification from 3D tagged MRI. *PloS one*, 16(11), e0258965.