Resource Summary Report

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TrackVis

RRID:SCR_004817
Type: Tool

Proper Citation

TrackVis (RRID:SCR_004817)

Resource Information

URL: http://trackvis.org/

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Description: TrackVis is software tool that can visualize and analyze fiber track data from diffusion MR imaging (DTI/DSI/HARDI/Q-Ball) tractography. It does NOT perform actual fiber tracking. Diffusion Toolkit is a set of tools that reconstruct diffusion imaging data and generate fiber track data for TrackVis to visualize. Because these two sets of tools were developed and maintained separately and each has distinguished funtionalities, they decided to distribute them as two separate programs for the ease of maintenance and upgrade. You do need both of them to perform complete diffusion data processing and analysis. Features of TrackVis include: * Cross-platform. Works on Windows, Mac OS X and Linux with native look and feel. * A variety of track filters (track selecting methods) allowing users to explore and locate specific bundles with ease. * Multiple rendering modes with customizable scalar-driven color codes. * Real-time parameter adjustment and 3D render. * Open format of the track data file allowing users to integrate customized scalar data into the track file and visualize and analyze it. Save and restore scenes in XML style scene file. * Statistical scalar analysis of tracks and ROIs. * Synchronized real-time multiple dataset analysis and display allowing time-point and/or subject comparison. Synchronized analysis and display on same dataset can also be performed in real-time remotely over the network. * Upfront in-line parameter adjustment in real-time. No tedious pop-up dialogs. TrackVis works with Track File created by Diffusion Toolkit. Diffusion Toolkit processes raw DICOM, Nifti format and ANALYZE images. TrackVis and Diffusion Toolkit are cross-platform software. They can run on Windows XP, Mac OS X as well as Linux.

Abbreviations: TrackVis

Synonyms: TrackVis and Diffusion Toolkit

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

processing software, software toolkit

Keywords: mri, dti, diffusion spectrum image, diffusion imaging, image reconstruction, diffusion mr fiber tracking, visualization, analyze, c++, console (text based), dicom, fiber tracking, image reconstruction, linux, macos, microsoft, magnetic resonance, nifti, posix/unix-like, tractography, visualization, win32 (ms windows), windows

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NIMH 5R01MH064044

Availability: Free for academic and non-profit research use, Non-commercial, For other purposes, Please contact them

Resource Name: TrackVis

Resource ID: SCR_004817

Alternate IDs: nlx_143916

Record Creation Time: 20220129T080226+0000

Record Last Update: 20260728T043208+0000

Ratings and Alerts

No rating or validation information has been found for TrackVis.

No alerts have been found for TrackVis.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 491 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Luo KL, et al. (2025) Generalizing Diffusion Tensor Imaging of the Physis and Metaphysis. Journal of magnetic resonance imaging : JMRI, 61(2), 798.

Yuan Z, et al. (2025) Multimodal fusion model for diagnosing mild cognitive impairment in unilateral middle cerebral artery steno-occlusive disease. Frontiers in aging neuroscience, 17, 1527323.

Kim J, et al. (2025) White Matter Integrity of the Three Subdivisions of the Superior Longitudinal Fasciculi in First-Episode Psychosis Patients. Psychiatry investigation, 22(9), 1077.

Wang X, et al. (2025) Sex-dependent impact of parental verbal abuse on brain lateralization of language. Neurobiology of stress, 36, 100730.

Royo J, et al. (2025) Evidence for an Evolutionary Continuity in Social Dominance: Insights from Nonhuman Primate Tractography. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(33).

Wei S, et al. (2025) Counterfactual explanations of tree based ensemble models for brain disease analysis with structure function coupling. Scientific reports, 15(1), 8524.

Lugtmeijer S, et al. (2025) Visual feature processing in a large stroke cohort: evidence against modular organization. Brain : a journal of neurology, 148(4), 1144.

Qiu Z, et al. (2025) Exploratory study on the ascending pain pathway in patients with chronic neck and shoulder pain based on combined brain and spinal cord diffusion tensor imaging. Frontiers in neuroscience, 19, 1460881.

Kauv P, et al. (2025) The corticospinal tract in multiple sclerosis: correlation between cortical excitability and magnetic resonance imaging measures. Journal of neural transmission (Vienna, Austria : 1996), 132(2), 265.

Tsyporin J, et al. (2025) Competing Programs Shape Cortical Sensorimotor-Association Axis Development. bioRxiv : the preprint server for biology.

Pais ML, et al. (2025) Sex-specific cortical networks drive social behavior differences in an autism spectrum disorder model. Translational psychiatry, 15(1), 251.

Licandro R, et al. (2025) High Resolution Postmortem MRI Discovers Developing Structural Connectivity in the Human Ascending Arousal Network. Human brain mapping, 46(17), e70422.

Schalk L, et al. (2025) White matter microstructure of the cingulum bundle and the uncinate fasciculus in primary and secondary callous-unemotional traits. European child & adolescent psychiatry, 34(12), 4035.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. Neuroradiology, 67(7), 1649.

Wu D, et al. (2025) Zuogui Pill Promotes Neurovascular Regeneration and Corticospinal Tract Remodeling After Ischemic Stroke. Drug design, development and therapy, 19, 4221.

Wang H, et al. (2025) Imaging of developing human brains with ex vivo PSOCT and dMRI. Imaging neuroscience (Cambridge, Mass.), 3.

Yu Q, et al. (2025) Microstructural integrity of the dual-stream fiber pathways significantly affects language performance of individuals with subacute post-stroke aphasia. NeuroImage. Clinical, 48, 103909.

Serai SD, et al. (2025) Diffusion Tensor Imaging (DTI) as a Non-Invasive Tool for Assessing Pediatric Kidney Transplants: A Feasibility Study. Pediatric transplantation, 29(5), e70119.

Zhao L, et al. (2025) The effect of rTMS intervention with different targets on neural remodeling in stroke patients: a randomized controlled trial. Frontiers in neurology, 16, 1539393.

Lv S, et al. (2025) Lesion Network Mapping for Atrial Fibrillation Newly Detected on ECG or Cardiac Monitoring After Stroke. Journal of the American Heart Association, 14(17), e043116.