

Resource Summary Report

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DSI Studio

RRID:SCR_009557

Type: Tool

Proper Citation

DSI Studio (RRID:SCR_009557)

Resource Information

URL: <http://dsi-studio.labsolver.org>

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Description: A software for diffusion MR images analysis. The provided functions include reconstruction (DTI, QBI, DSI, and GQI), deterministic fiber tracking, and 3D visualization. It has a window-based interface and operates on Microsoft Windows system.

Abbreviations: DSI Studio

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

Keywords: analyze, c++, console (text based), dicom, diffusion mr fiber tracking, diffusion spectrum, fiber tracking, image reconstruction, linux, microsoft, modeling, magnetic resonance, nifti, posix/unix-like, q-ball, quantification, super tensor, tensor metric, tractography, visualization, win32 (ms windows), windows, coregistration, analysis

Availability: BSD License

Resource Name: DSI Studio

Resource ID: SCR_009557

Alternate IDs: nlx_155737

Alternate URLs: <http://www.nitrc.org/projects/dsistudio>

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260728T043320+0000

Ratings and Alerts

No rating or validation information has been found for DSI Studio.

No alerts have been found for DSI Studio.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 558 mentions in open access literature.

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

Brao A, et al. (2025) Gene therapy rescues brain edema and motor function in a mouse model of megalencephalic leukoencephalopathy with subcortical cysts. Molecular therapy : the journal of the American Society of Gene Therapy, 33(4), 1434.

Liang L, et al. (2025) SpIC3D imaging for spinal in situ contrast 3D visualization. Cell reports methods, 5(10), 101202.

Syková E, et al. (2025) Disruption of Extracellular Matrix and Perineuronal Nets Modulates Extracellular Space Volume and Geometry. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(8).

Lehrich BM, et al. (2025) Precision targeting of β -catenin induces tumor reprogramming and immunity in hepatocellular cancers. Nature communications, 16(1), 5009.

Huang H, et al. (2025) Pro-repair macrophages driven by CGRP rescue white matter integrity following intracerebral hemorrhage. Journal of neuroinflammation, 22(1), 161.

Guo Y, et al. (2025) Decreased quantitative transport mapping velocity in the middle cerebral artery-supplied temporal lobe in Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(8), e70540.

Kanno A, et al. (2025) Dynamic Causal Tractography Analysis of Auditory Descriptive Naming: An Intracranial Study of 106 Patients. NeuroImage, 317, 121319.

Gao M, et al. (2025) A magnetic resonance imaging and gut flora-based study of intake desire in overweight/obese type 2 diabetes mellitus patients. Frontiers in neuroscience, 19, 1612722.

Zhang R, et al. (2025) Single-cell RNA sequencing reveals anterograde trans-synaptic degeneration and exacerbated synaptic remodeling in myopia. Experimental & molecular medicine, 57(7), 1536.

Wen X, et al. (2025) Early corticospinal tract sub-pathway lesion load and integrity predict post-stroke motor outcomes. Frontiers in human neuroscience, 19, 1598598.

- Ben Dor N, et al. (2025) Motor network pre-habilitation by low-frequency repetitive transcranial magnetic stimulation. A proof-of-concept. *Acta neurochirurgica*, 167(1), 182.
- Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. *Neuroradiology*, 67(7), 1649.
- Tornifoglio B, et al. (2025) A preliminary ex vivo diffusion tensor imaging study of distinct aortic morphologies. *Journal of anatomy*, 246(5), 745.
- He C, et al. (2025) Dynamic brain glymphatic changes and cognitive function in COVID-19 recovered patients: a DTI-ALPS prospective cohort study. *Frontiers in psychology*, 16, 1465660.
- Chen T, et al. (2025) Utilizing multiple diffusion metrics in evaluation of corticospinal tract injury in patients with glioblastoma. *Frontiers in neuroscience*, 19, 1605786.
- Lo Y, et al. (2025) A Multimodal Deep Learning Approach for White Matter Shape Prediction in Diffusion MRI Tractography. *Human brain mapping*, 46(16), e70396.
- Peng T, et al. (2025) Assessing neonatal brain glymphatic system development using diffusion tensor imaging along the perivascular space and choroid plexus volume. *BMC medical imaging*, 25(1), 126.
- Wolfe T, et al. (2025) "Population-level age effects on the white matter structure subserving cognitive flexibility in the human brain". *bioRxiv : the preprint server for biology*.
- Urbini MA, et al. (2025) Microstructural integrity within the damaged region of the residual corticofugal projection from primary motor cortex predicts the effect of noninvasive neuromodulation targeting the spinal cord in chronic stroke. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 22(4), e00607.
- Fabrizio-Stover EM, et al. (2025) Age-related auditory nerve deficits propagate central gain throughout the auditory system: Associations with cortical microstructure and speech recognition. *bioRxiv : the preprint server for biology*.