## **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 resource, software application, data processing software, image analysis 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

#### Funding:

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: 20250519T204523+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 488 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Behjat H, et al. (2025) Voxel-Wise?Brain?Graphs?From?Diffusion?MRI: Intrinsic Eigenspace Dimensionality and Application to Functional MRI. IEEE open journal of engineering in medicine and biology, 6, 158.

Vadinova V, et al. (2025) Early subacute frontal callosal microstructure and language outcomes after stroke. Brain communications, 7(1), fcae370.

Armocida D, et al. (2025) DTI fiber-tracking parameters adjacent to gliomas: the role of tract irregularity value in operative planning, resection, and outcome. Journal of neuro-oncology, 171(1), 241.

Sarica A, et al. (2025) Differential tractography identifies a distinct pattern of white matter alterations in essential tremor with or without resting tremor. NeuroImage. Clinical, 45, 103734.

Cabrera-Álvarez J, et al. (2024) A Multiscale Closed-Loop Neurotoxicity Model of Alzheimer's Disease Progression Explains Functional Connectivity Alterations. eNeuro, 11(4).

Phillips JS, et al. (2024) Greater white matter degeneration and lower structural connectivity in non-amnestic vs. amnestic Alzheimer's disease. Frontiers in neuroscience, 18, 1353306.

González Rodríguez LL, et al. (2024) Phybers: a package for brain tractography analysis. Frontiers in neuroscience, 18, 1333243.

Bange M, et al. (2024) Modifying the progression of Parkinson's disease through movement interventions: multimodal quantification of underlying mechanisms. Neural regeneration

research, 19(8), 1651.

Luppi AI, et al. (2024) Contributions of network structure, chemoarchitecture and diagnostic categories to transitions between cognitive topographies. Nature biomedical engineering, 8(9), 1142.

Kim ST, et al. (2024) Anti-seizure medication response and the glymphatic system in patients with focal epilepsy. European journal of neurology, 31(1), e16097.

Akinyele O, et al. (2024) Impaired polyamine metabolism causes behavioral and neuroanatomical defects in a mouse model of Snyder-Robinson syndrome. Disease models & mechanisms, 17(6).

Badihian N, et al. (2024) Clinical and neuroimaging characteristics of primary lateral sclerosis with overlapping features of progressive supranuclear palsy. European journal of neurology, 31(8), e16320.

Cárdenas SI, et al. (2024) White matter microstructure organization across the transition to fatherhood. Developmental cognitive neuroscience, 67, 101374.

Bazan NG, et al. (2024) Elovanoids, a Novel Class of Lipid Mediators, Are Neuroprotective in a Traumatic Brain Injury Model in Rats. Biomedicines, 12(11).

Benelli A, et al. (2024) Reduction of cognitive fatigue and improved performance at a VR-based driving simulator using tRNS. iScience, 27(9), 110536.

O?lin V, et al. (2024) Topographic anatomy of the lateral surface of the parietal lobe and its relationship with white matter tracts. Frontiers in neuroanatomy, 18, 1458989.

Skandalakis GP, et al. (2024) Unveiling the axonal connectivity between the precuneus and temporal pole: Structural evidence from the cingulum pathways. Human brain mapping, 45(9), e26771.

Luppi AI, et al. (2024) Quantifying synergy and redundancy between networks. Cell reports. Physical science, 5(4), 101892.

Berger A, et al. (2024) Locus coeruleus features are linked to vagus nerve stimulation response in drug-resistant epilepsy. Frontiers in neuroscience, 18, 1296161.

Sihvonen AJ, et al. (2024) Structural Neuroplasticity Effects of Singing in Chronic Aphasia. eNeuro, 11(5).