MITK Diffusion
RRID:SCR_006846
Type: Tool

Proper Citation

MITK Diffusion (RRID:SCR_006846)

Resource Information

URL: http://www.mitk.org/DiffusionImaging

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Description: A selection of image analysis algorithms for the processing of diffusion-weighted MR images. Features & Highlights * Tensor and q-ball reconstruction * Glyph visualization * Quantification and partial volume clustering of tensor and q-ball images * Global fiber tractography, visualization, and tract post-processing * Brain network statistics and visualization (connectomics) * Interactive exploration of Tract-based spatial statistics (TBSS) results * Intra-voxel incoherent motion (IVIM) estimation * Synthetic data generation Additional system specific requirements: * Windows: If you have problems running the Windows application, please install the Microsoft Redistributable Packages for VS 2008: 32 bit or 64 bit * Linux: the Qt framework, version 4.6.2 or later Tested systems: Windows 7, Windows Vista; Ubuntu 12.04 and newer; OS X 10.6 (Snow Leopard), OS X 10.8 (Mountain Lion) The OS X 10.6 installer is compatible with OS X 10.7 (Lion) so there is no dedicated disk image build under 10.7. The MITK Diffusion application is based on the MITK research platform and the most of it is open-source. The available code is embedded into the source code of MITK as a module and can be accessed through the public git repository.

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

References: PMID:23038239

Keywords: tractography, diffusion tensor imaging, q-ball imaging, diffusion mri, data processing, analysis, visualization, connectomics, fiber tractography, tract post processing, glyph visualization, tensor reconstruction, q-ball reconstruction, scalar index, connectivity analysis, image reconstruction, modeling, quantification, segmentation, fiber tracking, macos,
windows, os independent, linux, c++, dicom, nifti-1, nrrd, other format

**Parent Organization:** German Cancer Research Center

**Related resources:** Diffusion MRI of Traumatic Brain Injury

**Availability:** Most of it, Simplified BSD License

**Website Status:** Last checked up

**Abbreviations:** MITK-DI

**Resource Name:** MITK Diffusion

**Resource ID:** SCR_006846

**Alternate IDs:** nlx_153917

**Alternate URLs:** http://www.nitrc.org/projects/mitk-diffusion

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**Ratings and Alerts**

No rating or validation information has been found for MITK Diffusion.

No alerts have been found for MITK Diffusion.

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**Data and Source Information**

**Source:** [SciCrunch Registry](http://www.nitrc.org)

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**Usage and Citation Metrics**

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](http://www.nitrc.org).
