MITK Diffusion

RRID:SCR_006846
Type: Tool

Proper Citation

MITK Diffusion (RRID:SCR_006846)

Resource Information

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

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 Name: MITK Diffusion

Proper Citation: MITK Diffusion (RRID:SCR_006846)

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

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,
Resource ID: SCR_006846

Parent Organization: German Cancer Research Center

Related resources: Diffusion MRI of Traumatic Brain Injury

References: PMID:23038239

Availability: Most of it, Simplified BSD License

Website Status: Last checked up

Alternate IDs: nlx_153917

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

Abbreviations: MITK-DI

Mentions Count: 2

Ratings and Alerts

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

No alerts have been found for MITK Diffusion.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at scicrunch.
