MRtrix

RRID:SCR_006971
Type: Tool

Proper Citation

MRtrix (RRID:SCR_006971)

Resource Information


Description: A set of tools to perform diffusion-weighted MRI white matter tractography in the presence of crossing fibres, using Constrained Spherical Deconvolution (Tournier et al. 2004; Tournier et al. 2007), and a probabilistic streamlines algorithm (e.g. Behrens et al., 2003; Parker et al., 2003). These applications have been written from scratch in C++, using the functionality provided by the GNU Scientific Library, and gtkmm. The software is currently capable of handling DICOM, NIfTI and AnalyseAVW image formats, amongst others. Installation * Unix/Linux * Microsoft Windows * Mac Os X

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

Keywords: white matter tractography, diffusion mri, tractography, fiber tracking, crossing fiber, constrained spherical deconvolution, diffusion mr fiber tracking, image display, dti, linux, c++, analyze, bshort, bfloat, dicom, nifti-1, magnetic resonance

Resource ID: SCR_006971

Parent Organization: Florey Institute of Neuroscience and Mental Health; Victoria; Australia

Related resources: Diffusion MRI of Traumatic Brain Injury, neurodebian

Availability: GNU General Public License, Acknowledgement requested
Website Status: Last checked up

Alternate IDs: nlx_153918

Alternate URLs: http://www.nitrc.org/projects/mrtrix/

Abbreviations: MRtrix

Mentions Count: 62

Ratings and Alerts

- 4.5 / 5 (10 votes) Rated at NITRC http://www.nitrc.org/projects/mrtrix/

No alerts have been found for MRtrix.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 62 mentions in open access literature.

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


Berman S, et al. (2019) Modeling conduction delays in the corpus callosum using MRI-
measured g-ratio. NeuroImage, 195, 128-139.


