MRtrix

RRID:SCR_006971
Type: Tool

Proper Citation

MRtrix (RRID:SCR_006971)

Resource Information


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**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

**Abbreviations:** MRtrix

**Resource Type:** 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

**Availability:** GNU General Public License, Acknowledgement requested

**Resource Name:** MRtrix

**Resource ID:** SCR_006971

**Alternate URLs:** [http://www.nitrc.org/projects/mrtrix/](http://www.nitrc.org/projects/mrtrix/)

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 102 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.


Chung WS, et al. (2021) Comparative brain structure and visual processing in octopus from different habitats. Current biology : CB.