DTI Fiber Tract Statistics

RRID:SCR_009460
Type: Tool

Proper Citation

DTI Fiber Tract Statistics (RRID:SCR_009460)

Resource Information

URL: http://www.nitrc.org/projects/dti_tract_stat/

Proper Citation: DTI Fiber Tract Statistics (RRID:SCR_009460)

Description: This is a command line tool which allows the user to study the behavior of water diffusion (using DTI data) along the length of the white matter fiber-tracts. Various tract-oriented scalar diffusion measures obtained from DTI brain images, are treated as a continuous function of white matter fibers’ arc-length. To analyze the trend along a given fiber tract, a command line tool performs kernel regression on this data. The idea is to try out different noise models and maximum likelihood estimates within kernel windows (along the tract), such that they best represent the data and are robust to noise and Partial Volume effect. The package contains several command line based modules and an GUI based tool called DTIAtlasFiberAnalyzer to access most functions. The features available in the tool currently, its use and input / output formats and other relevant details are provided in the first draft of the documentation. (http://www.na-mic.org/Wiki/index.php/Projects:dtistatisticsfibers).

Resource Type: Resource, software resource, image analysis software, data processing software, software application

Keywords: c, linux, magnetic resonance, posix/unix-like, regression, statistical operation, dti

Availability: 3D Slicer License

Website Status: Last checked up

Abbreviations: DTI Fiber Tract Statistics

Resource Name: DTI Fiber Tract Statistics
Ratings and Alerts

No rating or validation information has been found for DTI Fiber Tract Statistics.

No alerts have been found for DTI Fiber Tract Statistics.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

