

Resource Summary Report

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DTI BrainImageScope

RRID:SCR_009559

Type: Tool

Proper Citation

DTI BrainImageScope (RRID:SCR_009559)

Resource Information

URL: <http://www.columbia.edu/~dx2103/brainimagescope.html>

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Description: Software package for processing diffusion tensor imaging data. The following functions are included: 1. Converting imaging data in DICOME format to ANALYZE format 2. Extracting binary brain mask for quick scalp-removing 3. Correcting eddy-current induced distortion 4. Optimized tensor estimation based on noisy diffusion-weighted imaging (DWI) data 5. Scalp removal using a brain mask image 6. Corregistering imaging data and generating deformation field for mapping images from individual spaces to a template or target space 7. Spatial Normalization and Warping DTI 8. Fiber tracking 9. Clustering fiber tracts 10. Identifying brain ventricles and generating binary masks for the baseline and DW imaging data 11. Deriving diffusion anisotropy indices (DAIs) and principal directions (PD) and the corresponding color-coded PD-map.

Abbreviations: dtiBrainScope

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

Keywords: magnetic resonance, diffusion tensor imaging

Funding: NIBIB 1R03EB008235-01A1;
Shanghai CST 10440710200

Availability: Other/Commercial license License

Resource Name: DTI BrainImageScope

Resource ID: SCR_009559

Alternate IDs: nlx_155739

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260803T040535+0000

Ratings and Alerts

No rating or validation information has been found for DTI BrainImageScope.

No alerts have been found for DTI BrainImageScope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.