

Resource Summary Report

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DTI Atlas Builder

RRID:SCR_013112

Type: Tool

Proper Citation

DTI Atlas Builder (RRID:SCR_013112)

Resource Information

URL: <https://github.com/NIRALUser/DTIAtlasBuilder>

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Description: This tool creates an Atlas image as an average of several DTI images that will be registered. The registration will be done in two steps : - Affine Registration with BRAINSFit - Non Linear Registration with GreedyAtlas A final step will apply the transformations to the original DTI images so that the final average can be computed. The main function writes a python script that will be executed to compute the Atlas. By running DTIAtlasBuilder, you will need to fill in informations in a Graphical User Interface, and then compute the Atlas. You can also run the tool in command line without using the GUI. Using the GUI, you will be able to save or load a dataset file or a parameter file. The tool needs these other tools to work, so be sure to have these installed on your computer: - ImageMath - ResampleDTIlogEuclidean - CropDTI - dtiprocess - BRAINSFit - GreedyAtlas - dtiaverage - DTI-Reg - unu - MriWatcher If you download the package, be sure to have the glut library installed.

Abbreviations: DTIAtlasBuilder

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

Keywords: magnetic resonance, dti, atlas

Availability: BSD License

Resource Name: DTI Atlas Builder

Resource ID: SCR_013112

Alternate IDs: nlx_155738

Alternate URLs: <http://www.nitrc.org/projects/dtiatlasbuilder>

Record Creation Time: 20220129T080314+0000

Record Last Update: 20260905T133047+0000

Ratings and Alerts

No rating or validation information has been found for DTI Atlas Builder.

No alerts have been found for DTI Atlas Builder.

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 [Kravitz](#) .

Shi Y, et al. (2016) UNC-Emory Infant Atlases for Macaque Brain Image Analysis: Postnatal Brain Development through 12 Months. *Frontiers in neuroscience*, 10, 617.

Verde AR, et al. (2014) UNC-Utah NA-MIC framework for DTI fiber tract analysis. *Frontiers in neuroinformatics*, 7, 51.