

# 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:** 20260912T200101+0000

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## Ratings and Alerts

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

No alerts have been found for DTI Atlas Builder.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [SPARC SAWG](#) .

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.