

Resource Summary Report

Generated by RRID on Sep 10, 2026

GPU based affine registration

RRID:SCR_009486

Type: Tool

Proper Citation

GPU based affine registration (RRID:SCR_009486)

Resource Information

URL: <http://www.nitrc.org/projects/gpu-areg/>

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Description: This tool can be used as a command line module with 3D Slicer (version 3 and above) for the affine registration of image volumes. The registration toolbox has 2 options: 1) a Mutual Information based registration, 2) a Sum-of-Square differences registration method. The final output is in the same space as the fixed image. You do require to have CUDA v2.2 or greater installed on your system with atleast 256MB Nvidia GPU memmory card. All operating systems are supported, but take a look at the CMakeLists.txt file for how to compile for you system.

Abbreviations: GPU based affine registration

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

Keywords: magnetic resonance

Availability: GPL-Style Open unspecified license,
<Http://www.nitrc.org/include/glossary.php#573>

Resource Name: GPU based affine registration

Resource ID: SCR_009486

Alternate IDs: nlx_155633

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260905T132633+0000

Ratings and Alerts

No rating or validation information has been found for GPU based affine registration.

No alerts have been found for GPU based affine registration.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.