Automatic Registration Toolbox

RRID:SCR_005993
Type: Tool

Proper Citation

Automatic Registration Toolbox (RRID:SCR_005993)

Resource Information

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

Proper Citation: Automatic Registration Toolbox (RRID:SCR_005993)

Description: ART "acpcdetect" program for automatic detection of the AC and PC landmarks and the mid-sagittal plane on 3D structural MRI scans. ART "brainwash" program for automatic multi-atlas skull-stripping of 3D structural MRI scans. ART "3dwarper" program of non-linear inter-subject registration of 3D structural MRI scans. Software (art2) for linear rigid-body intra-subject inter-modality (MRI-PET) image registration. Data resource: The ART projects makes available corpus callosum segmentations of 316 normal subjects from the OASIS cross-sectional database. ART "yuki" program for fast, robust, and fully automatic segmentation of the corpus callosum on 3D structural MRI scans.

Abbreviations: ART

Resource Type: data processing software, software application, software resource, data or information resource, image processing software, image collection, software toolkit, image analysis software

Keywords: artifact removal, intermodal, intersubject, intramodal, intrasubject, image-to-template, nearest neighbor, spline interpolation, tri-linear, affine warp, nonlinear warp, image display, corpus callosum, segmentation, mri, registration, structural mri, image registration, pet, nifti

Related Condition: Normal

Availability: Free, Non-commercial

Resource Name: Automatic Registration Toolbox
Ratings and Alerts

No rating or validation information has been found for Automatic Registration Toolbox.

No alerts have been found for Automatic Registration Toolbox.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 22 mentions in open access literature.

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


Thakran S, et al. (2022) Impact of deformable registration methods for prediction of recurrence free survival response to neoadjuvant chemotherapy in breast cancer: Results from the ISPY 1/ACRIN 6657 trial. Translational oncology, 20, 101411.

Zafarullah M, et al. (2021) Metabolomic Biomarkers Are Associated With Area of the Pons in Fragile X Premutation Carriers at Risk for Developing FXTAS. Frontiers in psychiatry, 12, 691717.


