

# Resource Summary Report

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## Fluid Registration and Atlas Toolkit

RRID:SCR\_009478

Type: Tool

### Proper Citation

Fluid Registration and Atlas Toolkit (RRID:SCR\_009478)

### Resource Information

**URL:** <http://www.nitrc.org/projects/frat/>

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**Description:** THIS RESOURCE IS NO LONGER IN SERVICE, documented on November 05, 2013. It has been superseded by the CALATK, available here <http://www.calatk.org> c++ libraries and applications for performing fluid registration based operations on 2D and 3D images. The registration method is based on the large displacement diffeomorphic mapping (LDDM) registration method and implements discretized fluid registration. This registration method is then applied to time series analysis, cross-sectional atlas building, and longitudinal atlas building. The individual tool components are: \* LDDM: Fluid registration between two images. \* TimeSeries: Time series analysis of longitudinal data for a single subject. \* AtlasBuilder: Cross-sectional atlas building for a population of images. \* LongitudinalAtlasBuilder: Longitudinal atlas building for a population of subjects, each with a longitudinal data set. \* FRATUtils: A collection of utility functions for working with volumes and time series files

**Abbreviations:** FRAT

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

**Keywords:** atlas application, c++, console (text based), image-to-image, linux, magnetic resonance, nonlinear warp, nrrd, posix/unix-like, registration, spatial transformation, warping

**Availability:** THIS RESOURCE IS NO LONGER IN SERVICE

**Resource Name:** Fluid Registration and Atlas Toolkit

**Resource ID:** SCR\_009478

**Alternate IDs:** nlx\_155625

**Record Creation Time:** 20220129T080253+0000

**Record Last Update:** 20260801T190409+0000

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## Ratings and Alerts

No rating or validation information has been found for Fluid Registration and Atlas Toolkit.

No alerts have been found for Fluid Registration and Atlas Toolkit.

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## Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.