Resource Summary Report

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ABSORB: Atlas Building by Self-Organized Registration and Bundling

RRID:SCR_007018
Type: Tool

Proper Citation

ABSORB: Atlas Building by Self-Organized Registration and Bundling (RRID:SCR_007018)

Resource Information

URL: http://bric.unc.edu/ideagroup/free-softwares/ABSORB/

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Description: This software package implements an algorithm for effective groupwise registration. The required input is a set of 3D MR intensity images (in Analyze format with paired .hdr and .img files) with a text file (.txt) listing all header file (.hdr) names. The output is the set of registered images together with the corresponding dense deformation fields. This software has been tested on Windows XP (32-bit) and Linux (64-bit, kernel version 2.6.18-194.el5). The images should be pre-processed before applying ABSORB: * All brain MR images used as inputs to ABSORB should be in the same situation (e.g., skull-stripped or not, cerebellum removed or not, etc.). * The input images should be in Analyze format with paired header and image files. This software was developed in IDEA group in UNC-Chapel Hill.

Abbreviations: ABSORB

Synonyms: ABSORB: Atlas Building by Self-Organized Registration Bundling, Atlas Building by Self-Organized Registration Bundling, Atlas Building by Self-Organized Registration and Bundling

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

Defining Citation: PMID:20226255

Keywords: image, registration, bundling, atlas, magnetic resonance, algorithm or reusable

library, intermodal, intersubject, intrasubject, image-to-template, affine warp, nonlinear warp

Funding:

Availability: Free, Public

Resource Name: ABSORB: Atlas Building by Self-Organized Registration and Bundling

Resource ID: SCR_007018

Alternate IDs: nlx_144409

Alternate URLs: http://www.nitrc.org/projects/absorb

Record Creation Time: 20220129T080239+0000

Record Last Update: 20250523T054607+0000

Ratings and Alerts

No rating or validation information has been found for ABSORB: Atlas Building by Self-Organized Registration and Bundling.

No alerts have been found for ABSORB: Atlas Building by Self-Organized Registration and Bundling.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Wu Y, et al. (2012) Comparison of acute recoil between bioabsorbable poly-L-lactic acid XINSORB stent and metallic stent in porcine model. Journal of biomedicine & biotechnology, 2012, 413956.