

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

Wavelet Analysis of Image Registration

RRID:SCR_000172

Type: Tool

Proper Citation

Wavelet Analysis of Image Registration (RRID:SCR_000172)

Resource Information

URL: <https://www.loni.usc.edu/research/software?name=WAIR>

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Description: A software tool for the quantitative analysis of various n-dimensional (n-D) image registration techniques. The series of 'C' subroutines which comprise the WAIR library can be easily incorporated into the user's site specific programs and adapted to their particular needs. Wavelet-space triangle analysis is applicable for studying a family of warps on single or multiple n-D data sets. For each data set the WAIR routine assigns a positive real number to every warp alignment in the family, and the best warp for the given data will be the one with the smallest value. It uses the original data prior to warping and the target of the warp in determining warp ranking in reduced wavelet space. Cluster group classification (CGC) is applicable for analyzing the overall performance of a family of warps of a group of data sets. A single number is assigned to each registration alignment, based on its group-clustering characteristics. Spread group classification (SGC) gives preference to registration techniques that spread apart baseline versus activation functional signal for group data.

Abbreviations: WAIR

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

Keywords: image analysis, cluster group classification, spread group classification, Java, warp, wavelet space triangle analysis

Funding: NIBIB 9P41EB015922-15

Availability: Free, Available for download, Freely available

Resource Name: Wavelet Analysis of Image Registration

Resource ID: SCR_000172

Alternate IDs: nif-0000-00357

Old URLs: <http://www.loni.usc.edu/Software/WAIR>

License: <http://loni.usc.edu/Software/license.php>

License URLs: <http://loni.usc.edu/Software/license.php>

Record Creation Time: 20220129T080200+0000

Record Last Update: 20260905T132952+0000

Ratings and Alerts

No rating or validation information has been found for Wavelet Analysis of Image Registration.

No alerts have been found for Wavelet Analysis of Image Registration.

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 [PRECISE-TBI](#) .

Boehringer R, et al. (2017) Chronic Loss of CA2 Transmission Leads to Hippocampal Hyperexcitability. Neuron, 94(3), 642.