NiftyReg
RRID:SCR_006593
Type: Tool

Proper Citation

NiftyReg (RRID:SCR_006593)

Resource Information

URL: http://sourceforge.net/projects/niftyreg/

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Description: Software tools for global and local image registration. The algorithm used for global registration is based on a block matching approach enabling robust registration (outliers rejection). The local registration implementation uses a cubic B-Spline parametrisation (Free-Form Deformation). All registration algorithms are based on symmetric approaches where forward and backward transformations can be optimised concurrently. NiftyReg has been implemented for both CPU and GPU (through the use of CUDA).

Abbreviations: NiftyReg

Synonyms: Nifty Reg

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

Keywords: analyze, c, c++, nifti, nrrd, registration, resampling, spatial transformation, warping

Availability: BSD License

Resource Name: NiftyReg

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

Ratings and Alerts
No rating or validation information has been found for NiftyReg.

No alerts have been found for NiftyReg.

Data and Source Information

**Source:** [SciCrunch Registry](SciCrunch.org)

Usage and Citation Metrics

We found 146 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](SciCrunch.org).


Tyson AL, et al. (2022) Accurate determination of marker location within whole-brain microscopy images. Scientific reports, 12(1), 867.


Moccia M, et al. (2022) B Cells in the CNS at Postmortem Are Associated With Worse Outcome and Cell Types in Multiple Sclerosis. Neurology(R) neuroimmunology & neuroinflammation, 9(1).

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


Stavropoulou A, et al. (2021) A multichannel feature-based approach for longitudinal lung CT
registration in the presence of radiation induced lung damage. Physics in medicine and biology, 66(17).


Clarke MTM, et al. (2021) Early anterior cingulate involvement is seen in presymptomatic MAPT P301L mutation carriers. Alzheimer's research & therapy, 13(1), 42.


Valdés Hernández MDC, et al. (2021) Post-stroke Cognition at 1 and 3 Years Is Influenced by the Location of White Matter Hyperintensities in Patients With Lacunar Stroke. Frontiers in neurology, 12, 634460.