

Resource Summary Report

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Fast Nonlocal Means for MRI denoising

RRID:SCR_002586

Type: Tool

Proper Citation

Fast Nonlocal Means for MRI denoising (RRID:SCR_002586)

Resource Information

URL: <http://www.nitrc.org/projects/unlmeans/>

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Description: A fast and robust software implementation of the popular Nonlocal Means for MRI-Rician denoising. It works by computing the non-local weights based on distances in a features space comprising the local mean value and gradients of the image. It can reach an acceleration factor of 20x over the original implementation, with an improved performance for medium-low SNR images. They use a bias correction step for Rician noise based on the well-known Conventional Approach. This software can be compiled either as a Slicer module or a stand-alone:

http://www.nitrc.org/snapshots.php?group_id=518

Abbreviations: Fast Nonlocal Means for MRI denoising

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

Keywords: analyze, artifact removal, c++, filtering, frequency domain, intensity non-uniformity correction, intensity operation, linux, macos, microsoft, minc, magnetic resonance, nifti, nrrd, other unix-like, posix/unix-like, quality metrics, spatial transformation, nonlocal means, nlm, c++, itk, mri, denoising

Availability: Free, Available for download, Freely available

Resource Name: Fast Nonlocal Means for MRI denoising

Resource ID: SCR_002586

Alternate IDs: nlx_155991

License: 3D Slicer License

Record Creation Time: 20220129T080214+0000

Record Last Update: 20260912T195543+0000

Ratings and Alerts

No rating or validation information has been found for Fast Nonlocal Means for MRI denoising.

No alerts have been found for Fast Nonlocal Means for MRI denoising.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.