

Resource Summary Report

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NiftyRec

RRID:SCR_002499

Type: Tool

Proper Citation

NiftyRec (RRID:SCR_002499)

Resource Information

URL: <http://niftyrec.scienceontheweb.net/>

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Description: Software toolbox that includes reconstruction tools for emission and transmission imaging modalities, including Single Photon Emission Computed Tomography (SPECT), Positron Emission Tomography (PET), cone-beam X-Ray CT and parallel-beam X-Ray CT. At the core of NiftyRec are efficient, GPU accelerated, projection, back-projection and iterative reconstruction algorithms. The easy to use Matlab and Python interfaces of NiftyRec enable fast prototyping and development of reconstruction algorithms. NiftyRec includes standard iterative reconstruction algorithms such as Maximum Likelihood Expectation Maximisation (MLEM), Ordered Subsets Expectation Maximisation (OSEM) and One Step Late Maximum A Posteriori Expectation Maximisation (OSL-MAPEM), for multiple imaging modalities.

Abbreviations: NiftyRec

Synonyms: NiftyRec Tomography Toolbox, NiftyRec Open Source Tomography Toolbox

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

Keywords: computed tomography, pet, spect

Availability: BSD License

Resource Name: NiftyRec

Resource ID: SCR_002499

Alternate IDs: nlx_155898

Alternate URLs: <http://www.nitrc.org/projects/niftyrec>

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260727T040315+0000

Ratings and Alerts

No rating or validation information has been found for NiftyRec.

No alerts have been found for NiftyRec.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Jensen M, et al. (2022) Feasibility of positron range correction in 82-Rubidium cardiac PET/CT. EJNMMI physics, 9(1), 51.

Malbert CH, et al. (2019) Chronic abdominal vagus stimulation increased brain metabolic connectivity, reduced striatal dopamine transporter and increased mid-brain serotonin transporter in obese miniature pigs. Journal of translational medicine, 17(1), 78.