Resource Summary Report

Generated by NIF on Apr 18, 2025

UMMPerfusion

RRID:SCR_015970
Type: Tool

Proper Citation

UMMPerfusion (RRID:SCR_015970)

Resource Information

URL: http://ikrsrv1.medma.uni-heidelberg.de/redmine/projects/ummperfusion

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Description: Analysis software for dynamic contrast enhanced magnetic resonance images with implementation of a pixel-by-pixel deconvolution approach. It quantifies T1-weighted contrast-enhanced dynamic MR imaging (DCE-MRI) perfusion data as an OsiriX plug-in.

Synonyms: OsiriX plugin

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

Defining Citation: PMID:22832894

Keywords: DCE-MRI, t1, weighted, imaging, mr, magnetic, resonance, analysis, digital, perfusion, parameter, data, set, image, algorithm, contrast, pixel

Funding: Heinrich-Vetter-Stiftung

Availability: Open source, Available for download, Runs on Mac OS, Tutorial available

Resource Name: UMMPerfusion

Resource ID: SCR_015970

Record Creation Time: 20220129T080328+0000

Record Last Update: 20250418T055435+0000

Ratings and Alerts

No rating or validation information has been found for UMMPerfusion.

No alerts have been found for UMMPerfusion.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Laustsen C, et al. (2020) Hyperpolarized [1,4-13C]fumarate imaging detects microvascular complications and hypoxia mediated cell death in diabetic nephropathy. Scientific reports, 10(1), 9650.

Debus C, et al. (2019) MITK-ModelFit: A generic open-source framework for model fits and their exploration in medical imaging - design, implementation and application on the example of DCE-MRI. BMC bioinformatics, 20(1), 31.

Gaa T, et al. (2017) Comparison of perfusion models for quantitative T1 weighted DCE-MRI of rectal cancer. Scientific reports, 7(1), 12036.

Smith DS, et al. (2015) DCEMRI.jl: a fast, validated, open source toolkit for dynamic contrast enhanced MRI analysis. PeerJ, 3, e909.

García Molina JF, et al. (2014) Incremental learning with SVM for multimodal classification of prostatic adenocarcinoma. PloS one, 9(4), e93600.