

Resource Summary Report

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[POAS4SPM](#)

RRID:SCR_010469

Type: Tool

Proper Citation

POAS4SPM (RRID:SCR_010469)

Resource Information

URL: <http://www.diffusiontools.com/documentation/poas.html>

Proper Citation: POAS4SPM (RRID:SCR_010469)

Description: Software toolbox for SPM to denoise diffusion MRI data. Used for diffusion weighted magnetic resonance imaging data enhancement based on structural adaptive smoothing in both voxel space and diffusion-gradient space. Part of the ACID-toolbox.

Abbreviations: POAS4SPM

Synonyms: Position Orientation Adaptive Smoothing for SPM

Resource Type: software resource

Defining Citation: [PMID:24993814](#)

Keywords: denoise diffusion MRI data, diffusion weighted, magnetic resonance imaging data, MRI data,

Funding: Deutsche Forschungsgemeinschaft ;
Wellcome Trust

Resource Name: POAS4SPM

Resource ID: SCR_010469

Alternate IDs: nlx_157718

Alternate URLs: <http://www.diffusiontools.com/>

Record Creation Time: 20220129T080259+0000

Record Last Update: 20260905T132642+0000

Ratings and Alerts

No rating or validation information has been found for POAS4SPM.

No alerts have been found for POAS4SPM.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Catoira B, et al. (2025) Exploring the Effects of Cerebellar tDCS on Brain Connectivity Using Resting-State fMRI. *Brain and behavior*, 15(2), e70302.

Voicu IP, et al. (2024) Machine Learning Analysis in Diffusion Kurtosis Imaging for Discriminating Pediatric Posterior Fossa Tumors: A Repeatability and Accuracy Pilot Study. *Cancers*, 16(14).

Schulz MA, et al. (2023) Similar neural pathways link psychological stress and brain-age in health and multiple sclerosis. *iScience*, 26(9), 107679.

Alsameen MH, et al. (2023) C-NODDI: a constrained NODDI model for axonal density and orientation determinations in cerebral white matter. *Frontiers in neurology*, 14, 1205426.

Catoira B, et al. (2023) The effects of stimulating the cerebellum on social sequences: A tDCS-fMRI pilot study: Los efectos de estimular el cerebelo en secuencias sociales: Un estudio piloto con tDCS y fMRI. *International journal of clinical and health psychology : IJCHP*, 23(3), 100373.

Uddin MN, et al. (2022) The comorbidity and cognition in multiple sclerosis (CCOMS) neuroimaging protocol: Study rationale, MRI acquisition, and minimal image processing pipelines. *Frontiers in neuroimaging*, 1, 970385.

Voicu IP, et al. (2022) Developing a Predictive Grading Model for Children with Gliomas Based on Diffusion Kurtosis Imaging Metrics: Accuracy and Clinical Correlations with Patient Survival. *Cancers*, 14(19).

Tabelow K, et al. (2015) POAS4SPM: a toolbox for SPM to denoise diffusion MRI data. *Neuroinformatics*, 13(1), 19.

Becker SM, et al. (2014) Adaptive smoothing of multi-shell diffusion weighted magnetic resonance data by msPOAS. *NeuroImage*, 95, 90.