Resource Summary Report

Generated by nidm-terms on Jul 28, 2026

SPHARM-MAT

RRID:SCR_002545
Type: Tool

Proper Citation

SPHARM-MAT (RRID:SCR_002545)

Resource Information

URL: http://imaging.indyrad.iupui.edu/projects/SPHARM/

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Description: A matlab-based 3D shape modeling and analysis toolkit, and is designed to aid statistical shape analysis for identifying morphometric changes in 3D structures of interest related to different conditions. SPHARM-MAT is implemented based on a powerful 3D Fourier surface representation method called SPHARM, which creates parametric surface models using spherical harmonics.

Abbreviations: SPHARM-MAT

Resource Type: software application, software resource, software toolkit

Keywords: analyze, c, matlab, microsoft, morphology, magnetic resonance, nifti, posix/unix-like, quantification, quantitative shape analysis, shape analysis, shape decomposition, spherical harmonics, surface analysis, win32 (ms windows), windows, parametric surface model, spherical harmonics, 3d, shape modeling, analysis, morphometry

Funding: NIBIB R03EB008674-01

Availability: Free, Available for download, Freely available

Resource Name: SPHARM-MAT

Resource ID: SCR_002545

Alternate IDs: nlx_155952

Alternate URLs: http://www.nitrc.org/projects/spharm-mat

License: GNU General Public License

Record Creation Time: 20220129T080214+0000

Record Last Update: 20260727T040316+0000

Ratings and Alerts

No rating or validation information has been found for SPHARM-MAT.

No alerts have been found for SPHARM-MAT.

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 .

Wu J, et al. (2021) Radiological tumor classification across imaging modality and histology. Nature machine intelligence, 3, 787.

Ruan X, et al. (2019) Evaluation of methods for generative modeling of cell and nuclear shape. Bioinformatics (Oxford, England), 35(14), 2475.