

Resource Summary Report

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Computational Anatomy Toolbox for SPM

RRID:SCR_019184

Type: Tool

Proper Citation

Computational Anatomy Toolbox for SPM (RRID:SCR_019184)

Resource Information

URL: <http://www.neuro.uni-jena.de/cat/>

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Description: Software toolbox as extension to SPM12 to provide computational anatomy. This covers diverse morphometric methods such as voxel based morphometry, surface based morphometry, deformation based morphometry, and region or label based morphometry.

Abbreviations: CAT

Synonyms: CAT12

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

Keywords: MRI, neuroimaging, brain, voxel based morphometry, surface based morphometry, deformation based morphometry, label based morphometry, region based morphometry

Availability: Free, Available for download, Freely available

Resource Name: Computational Anatomy Toolbox for SPM

Resource ID: SCR_019184

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260829T182618+0000

Ratings and Alerts

No rating or validation information has been found for Computational Anatomy Toolbox for SPM.

No alerts have been found for Computational Anatomy Toolbox for SPM.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 581 mentions in open access literature.

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

McKay CC, et al. (2026) Agreement between FreeSurfer and CAT12 Cortical Thickness Measurements: A Discovery and a Replication Study in Children/Adolescents. *Brain topography*, 39(3).

Xu HZ, et al. (2026) Age differences in episodic memory for restructured novel objects: The effect of schema deviations. *Neurobiology of learning and memory*, 225, 108155.

Niu X, et al. (2026) Cognitive deficits linked to intrinsic timescales and gray matter volume abnormalities in children with Duchenne muscular dystrophy. *Journal of neurodevelopmental disorders*, 18(1).

Jiang L, et al. (2026) Differential effects of cognitive training and aerobic exercise on regional gray matter volume and inter-regional covariance in community-dwelling older adults. *Scientific reports*, 16(1).

Hou J, et al. (2026) Alterations in cortical surface morphometry in fibromyalgia: a multi-parametric study. *Frontiers in psychology*, 17, 1813590.

Hou J, et al. (2026) Brain structural morphometry in non-musicians with superior pitch identification ability. *Scientific reports*, 16(1).

Hosp JA, et al. (2026) The degenerome-a novel streamline-wise approach for white matter integrity in neurodegeneration. *NPJ Parkinson's disease*, 12(1).

Deane AR, et al. (2026) Altered cerebrovascular haemodynamics in Parkinson's disease: Insights from 4D flow MRI. *NPJ Parkinson's disease*, 12(1).

Li Z, et al. (2026) A neuroimaging biomarker for disease staging in clinically diagnosed Alzheimer's disease. *BMC medicine*, 24(1).

An J, et al. (2026) Multimodal MRI Assessment of neuroprotective effects of Ofatumumab on brain structure, function, and clinical correlates in Relapsing Multiple Sclerosis. *Frontiers in neurology*, 17, 1738469.

F?ašková M, et al. (2026) Long-term neurostructural and psychological effects of war stress in two generations of civilians from the former Yugoslavia. *Scientific reports*, 16(1).

Jung J, et al. (2026) Evaluation of the association between MREPT-derived conductivity and IVIM-derived ISF-related metrics in the brains of patients with cognitive impairments. *Frontiers in aging neuroscience*, 18, 1828803.

Han Y, et al. (2026) Cerebellar gray matter volume difference in first-episode bipolar and unipolar depression. *BMC psychiatry*, 26(1).

Ma S, et al. (2026) Morphological and electroencephalographic correlates in patients with disorders of consciousness following primary brainstem hemorrhage: a retrospective analysis. *Frontiers in neurology*, 17, 1786548.

Arabi E, et al. (2026) Multimodal magnetic resonance imaging-based clustering identifies two imaging-defined brain phenotypes in De novo Parkinson's disease. *NeuroImage. Clinical*, 51, 104021.

Schmitz-Koep B, et al. (2026) Longitudinal assessment of cortical thickness in healthy older individuals: a comparison between CAT12 and freesurfer. *Neuroradiology*, 68(2), 469.

Hu T, et al. (2026) Metabotropic glutamate receptor 5 is associated with plasma GFAP dependent on age. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 22(5), e71473.

Terenzi D, et al. (2026) Serotonergic cortico-limbic and executive network dysfunction in Parkinson's disease impulse control disorders: a PET-fMRI study. *NPJ Parkinson's disease*, 12(1).

Tian Y, et al. (2026) Quantitative susceptibility mapping and MRS-based multimodal machine learning for early Parkinson's disease classification. *NPJ Parkinson's disease*, 12(1).

Fang C, et al. (2026) Accelerated brain aging in amyotrophic lateral sclerosis and its prognostic associations: a cohort study. *BMC medicine*, 24(1), 86.