

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

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: 20260801T042847+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 443 mentions in open access literature.

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

Spani F, et al. (2025) Assessing brain neuroplasticity: Surface morphometric analysis of cortical changes induced by Quadrato motor training. *Journal of anatomy*, 246(5), 757.

Yoshimura K, et al. (2025) Neural substrates underlying distinct dual cognitive syndromes in Parkinson's disease. *European journal of neurology*, 32(1), e70022.

Sone D, et al. (2025) Neuropsychiatric symptoms and neuroimaging-based brain age in mild cognitive impairment and early dementia: A multicenter study. *Psychiatry and clinical neurosciences*, 79(4), 158.

Yoon YB, et al. (2025) The role of the ventral striatum in the relationship between impulsive decision-making and emotional self-regulation by cognitive reappraisal. *Scientific reports*, 15(1), 27830.

Tian Z, et al. (2025) Altered gray matter morphometry in psychogenic erectile dysfunction patients: A Surface-based morphometry study. *Scientific reports*, 15(1), 28661.

Safai A, et al. (2025) Association of neighborhood disadvantage with cognitive function and cortical disorganization in an unimpaired cohort: An exploratory study. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(3), e70095.

Wang J, et al. (2025) Impact of Y chromosome loss on the risk of Parkinson's disease and progression. *EBioMedicine*, 117, 105769.

Chen T, et al. (2025) Anterior Insula Drives Progressive Structural Brain Network Atrophy in the Behavioural Variant of Frontotemporal Dementia. *Human brain mapping*, 46(14), e70374.

Ojha A, et al. (2025) Clinical and MRI features contributing to the clinico-radiological dissociation in a large cohort of people with multiple sclerosis. *Journal of neurology*, 272(5), 327.

Huang X, et al. (2025) Association of valproate use and hippocampal atrophy in idiopathic generalized epilepsy. *NeuroImage. Clinical*, 45, 103744.

Perron J, et al. (2025) Brain metabolic imaging-based model identifies cognitive stability in prodromal Alzheimer's disease. *Scientific reports*, 15(1), 17187.

Hosp JA, et al. (2025) Fatigue in Post-COVID-Condition is accompanied by hypoperfusion of right-occipital areas. *PloS one*, 20(11), e0335038.

Feng Y, et al. (2025) Diffusion trajectory of atypical morphological development in autism spectrum disorder. *Communications biology*, 8(1), 1476.

Michelutti M, et al. (2025) Structural covariance network patterns linked to neuropsychiatric symptoms in biologically defined Alzheimer's disease: Insights from the mild behavioral impairment checklist. *Journal of Alzheimer's disease : JAD*, 104(2), 338.

Kraus A, et al. (2025) Brain structural correlates of an impending initial major depressive episode. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 50(7), 1176.

Chen Y, et al. (2025) Cortical Morphology Alterations Mediate the Relationship Between Glymphatic System Function and the Severity of Asthenopia. *International journal of biomedical imaging*, 2025, 4464776.

Chang Y, et al. (2025) Evidence for brain glial activity in chronic migraine patients: a [11C] PBR28 PET/MR study. *European journal of nuclear medicine and molecular imaging*, 52(11), 4334.

W??thrich F, et al. (2025) Reduced finger tapping speed in patients with schizophrenia and psychomotor slowing: an exploratory fMRI study. *Frontiers in psychiatry*, 16, 1539112.

Lin Q, et al. (2025) Cortical Morphological Networks Differ Between Gyri and Sulci. *Neuroscience bulletin*, 41(1), 46.

He Y, et al. (2025) Associations of plasma biomarkers with cerebral perfusion and structure in Alzheimer's disease. *Translational psychiatry*, 15(1), 2.