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, software resource, software application, data processing software, 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: 20260728T043553+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 nidm-terms .

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.

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.

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.

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

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.

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

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

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.

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

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

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

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.

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

Liu S, et al. (2025) Multi-omics analyses of the gut microbiome, fecal metabolome, and multimodal brain MRI reveal the role of Alistipes and its related metabolites in major depressive disorder. Psychological medicine, 55, e190.

Altschuler F, et al. (2025) White matter hyperintensities and their impact in brain structure and function in alzheimer's disease and behavioral variant frontotemporal dementia across Latin America and the United States: a cross-sectional study. Alzheimer's research & therapy, 17(1), 188.

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.

Zehirlioglu L, et al. (2025) The moderating effect of lifetime physical activity on brain alterations related to adverse childhood experiences. European psychiatry : the journal of the Association of European Psychiatrists, 68(1), e168.

Goltermann J, et al. (2025) Gray matter correlates of childhood maltreatment lack replicability in a multi-cohort brain-wide association study. Nature communications, 16(1), 8290.

Li G, et al. (2025) Clinical and Functional Connectivity Markers in Prediction of Hallucinations in Parkinson's Disease. CNS neuroscience & therapeutics, 31(6), e70432.