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

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

Funding:

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: 20250517T060415+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 381 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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

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.

Lim SH, et al. (2025) Prediction of Hemifacial Spasm Re-Appearing Phenomenon after Microvascular Decompression Surgery in Patients with Hemifacial Spasm Using Dynamic Susceptibility Contrast Perfusion Magnetic Resonance Imaging. Journal of Korean Neurosurgical Society, 68(1), 46.

Scarano A, et al. (2025) The phobic brain: Morphometric features correctly classify individuals with small animal phobia. Psychophysiology, 62(1), e14716.

Weber S, et al. (2025) Salivary oxytocin and amygdalar alterations in functional neurological disorders. Brain communications, 7(1), fcae455.

Droby A, et al. (2025) Radiological markers of CSF ?-synuclein aggregation in Parkinson's disease patients. NPJ Parkinson's disease, 11(1), 7.

Bakiaj R, et al. (2025) Unmasking the Dark Triad: A Data Fusion Machine Learning Approach to Characterize the Neural Bases of Narcissistic, Machiavellian and Psychopathic Traits. The European journal of neuroscience, 61(2), e16674.

Yang XF, et al. (2025) Transcendent thinking counteracts longitudinal effects of mid-adolescent exposure to community violence in the anterior cingulate cortex. Journal of research on adolescence : the official journal of the Society for Research on Adolescence, 35(1), e12993.

Meindl T, et al. (2025) Assisted Parkinsonism Diagnosis Using Multimodal MRI-The Role of Clinical Insights. Brain and behavior, 15(1), e70274.

Li X, et al. (2024) Elevated plasma matrix metalloproteinase 9 in schizophrenia patients associated with poor antipsychotic treatment response and white matter density deficits. Schizophrenia (Heidelberg, Germany), 10(1), 71.

Zhou X, et al. (2024) Distinctive Gait Variations and Neuroimaging Correlates in Alzheimer's Disease and Cerebral Small Vessel Disease. Journal of cachexia, sarcopenia and muscle, 15(6), 2717.

Kindler J, et al. (2024) Aberrant brain dynamics in individuals with clinical high risk of psychosis. Schizophrenia bulletin open, 5(1).

Li J, et al. (2024) Morphological Brain Networks of White Matter: Mapping, Evaluation, Characterization, and Application. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(35), e2400061.

Chen W, et al. (2024) Disrupted gray matter connectome in vestibular migraine: a combined machine learning and individual-level morphological brain network analysis. The journal of headache and pain, 25(1), 177.

Wang Y, et al. (2024) Temporal and topological properties of dynamic networks reflect disability in patients with neuromyelitis optica spectrum disorders. Scientific reports, 14(1), 4199.

Maggioni E, et al. (2024) Right frontal cingulate cortex mediates the effect of prenatal complications on youth internalizing behaviors. Molecular psychiatry, 29(7), 2074.

Gros G, et al. (2024) Whole-brain gray matter maturation trajectories associated with autistic traits from adolescence to early adulthood. Brain structure & function, 229(1), 15.

Premi E, et al. (2024) Impaired glymphatic system in genetic frontotemporal dementia: a GENFI study. Brain communications, 6(4), fcae185.

Capelli S, et al. (2024) MRI evidence of gray matter loss in COVID-19 patients with cognitive and olfactory disorders. Annals of clinical and translational neurology, 11(9), 2457.