Resource Summary Report

Generated by RRID on May 17, 2025

Connectome Computation System

RRID:SCR_017342
Type: Tool

Proper Citation

Connectome Computation System (RRID:SCR_017342)

Resource Information

URL: https://github.com/zuoxinian/CCS

Proper Citation: Connectome Computation System (RRID:SCR_017342)

Description: Software tool for multimodal human brain imaging data analysis. Computational pipeline for discovery science of human brain connectomes at macroscale with multimodal magnetic resonance imaging technologies.

Abbreviations: CCS

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

Defining Citation: DOI:10.1007/s11434-014-0698-3

Keywords: Multimodal, human, brain, imaging, data, analysis, connectome, magnetic, resonance

Funding:

Availability: Free, Available for download, Freely available

Resource Name: Connectome Computation System

Resource ID: SCR_017342

License: GNU GPL v2

Record Creation Time: 20220129T080334+0000

Record Last Update: 20250517T060319+0000

Ratings and Alerts

No rating or validation information has been found for Connectome Computation System.

No alerts have been found for Connectome Computation System.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Gao P, et al. (2025) A multi-modal neuroimaging data release for Meige Syndrome and Facial Paralysis Research. Scientific data, 12(1), 62.

Chang D, et al. (2024) Older is order: entropy reduction in cortical spontaneous activity marks healthy aging. BMC neuroscience, 25(1), 74.

Yan ZX, et al. (2024) Age-related trajectories of the development of social cognition. Frontiers in psychology, 15, 1348781.

Nenning KH, et al. (2024) Fast connectivity gradient approximation: maintaining spatially fine-grained connectivity gradients while reducing computational costs. Communications biology, 7(1), 697.

Ge LK, et al. (2024) An open data for imaging acute aerobic exercise effects on brain and mind in emerging adulthood. Scientific data, 11(1), 1422.

Nenning KH, et al. (2023) Omnipresence of the sensorimotor-association axis topography in the human connectome. NeuroImage, 272, 120059.

Xing XX, et al. (2021) Globally Aging Cortical Spontaneous Activity Revealed by Multiple Metrics and Frequency Bands Using Resting-State Functional MRI. Frontiers in aging neuroscience, 13, 803436.

Ge LK, et al. (2021) Aerobic Exercise Decreases Negative Affect by Modulating Orbitofrontal-Amygdala Connectivity in Adolescents. Life (Basel, Switzerland), 11(6).

Cho JW, et al. (2021) Impact of concatenating fMRI data on reliability for functional connectomics. NeuroImage, 226, 117549.

Hilger K, et al. (2020) Temporal stability of functional brain modules associated with human intelligence. Human brain mapping, 41(2), 362.

Feng R, et al. (2020) Antipsychotic Effects on Cortical Morphology in Schizophrenia and Bipolar Disorders. Frontiers in neuroscience, 14, 579139.

Nenning KH, et al. (2020) Joint embedding: A scalable alignment to compare individuals in a connectivity space. NeuroImage, 222, 117232.