

# Resource Summary Report

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## 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](https://doi.org/10.1007/s11434-014-0698-3)

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

**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:** 20260729T044429+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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 15 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [nidm-terms](#) .

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

Wang P, et al. (2025) Spacetime concordance in the primate cortex. bioRxiv : the preprint server for biology.

Fan XR, et al. (2025) Profiling brain morphology for autism spectrum disorder with two cross-culture large-scale consortia. Communications biology, 8(1), 1157.

Jin DZ, et al. (2025) Human cortex organizes dynamic co-fluctuations along sensation-association axis. bioRxiv : the preprint server for biology.

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

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

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

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.