

Resource Summary Report

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GraphVar: A toolbox for comprehensive graph analyses of functional brain connectivity

RRID:SCR_014117

Type: Tool

Proper Citation

GraphVar: A toolbox for comprehensive graph analyses of functional brain connectivity (RRID:SCR_014117)

Resource Information

URL: <http://www.nitrc.org/projects/graphvar/>

Proper Citation: GraphVar: A toolbox for comprehensive graph analyses of functional brain connectivity (RRID:SCR_014117)

Description: A user-friendly graphical-user-interface (GUI)-based toolbox (MATLAB) for comprehensive graph-theoretical analyses of brain connectivity, including network construction and characterization, statistical analysis on network topological measures, and interactive exploration of results.

Synonyms: GraphVar

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

Defining Citation: [PMID:25725332](#)

Keywords: software toolbox, data analysis, brain connectivity, graph theoretical analysis, statistical analysis, network construction, network characterization

Availability: Available for download

Resource Name: GraphVar: A toolbox for comprehensive graph analyses of functional brain connectivity

Resource ID: SCR_014117

Alternate URLs: <http://www.rfmri.org/GraphVar>

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Record Creation Time: 20220129T080319+0000

Record Last Update: 20260805T044320+0000

Ratings and Alerts

No rating or validation information has been found for GraphVar: A toolbox for comprehensive graph analyses of functional brain connectivity.

No alerts have been found for GraphVar: A toolbox for comprehensive graph analyses of functional brain connectivity.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

He G, et al. (2025) A multi-representation deep-learning framework for accurate multicancer classification. *Journal of translational medicine*, 23(1), 1317.

Ishihara T, et al. (2025) Multimodal Imaging to Identify Brain Markers of Human Prosocial Behavior. *eNeuro*, 12(3).

Borne A, et al. (2024) Unveiling the cognitive network organization through cognitive performance. *Scientific reports*, 14(1), 11645.

Haiduk F, et al. (2024) Spectrotemporal cues and attention jointly modulate fMRI network topology for sentence and melody perception. *Scientific reports*, 14(1), 5501.

Achtzehn J, et al. (2024) Changes in Functional Connectivity Relate to Modulation of Cognitive Control by Subthalamic Stimulation. *Human brain mapping*, 45(17), e70095.

Hagan AT, et al. (2024) The pharmacodynamic modulation effect of oxytocin on resting state functional connectivity network topology. *Frontiers in pharmacology*, 15, 1460513.

Nestor LJ, et al. (2024) Reduced brain connectivity underlying value-based choices and outcomes in stimulant use disorder. *NeuroImage. Clinical*, 44, 103676.

Drenth N, et al. (2024) Distinct functional subnetworks of cognitive domains in older adults with minor cognitive deficits. *Brain communications*, 6(1), fcae048.

Smith G, et al. (2023) Altering the Trajectory of Perfusion-Diffusion Deficits Using A BDNF Mimetic Acutely After TBI is Associated with Improved Functional Connectivity. *Progress in neurobiology (Dover, Del.)*, 10(1).

Mansoor MS, et al. (2022) Local efficiency analysis of resting-state functional brain network in methamphetamine users. *Behavioural brain research*, 434, 114022.

Yang T, et al. (2022) Pretreatment topological disruptions of whole-brain networks exist in childhood absence epilepsy: A resting-state EEG-fMRI study. *Epilepsy research*, 182, 106909.

Zhu J, et al. (2021) Altered topological properties of brain functional networks in drug-resistant epilepsy patients with vagus nerve stimulators. *Seizure*, 92, 149.

Sierk A, et al. (2021) The dissociative subtype of posttraumatic stress disorder is associated with subcortical white matter network alterations. *Brain imaging and behavior*, 15(2), 643.

Banjac S, et al. (2021) Reconfiguration dynamics of a language-and-memory network in healthy participants and patients with temporal lobe epilepsy. *NeuroImage. Clinical*, 31, 102702.

Martucci KT, et al. (2021) Spinal Cord Resting State Activity in Individuals With Fibromyalgia Who Take Opioids. *Frontiers in neurology*, 12, 694271.

Zhang T, et al. (2021) Aberrant basal ganglia-thalamo-cortical network topology in juvenile absence epilepsy: A resting-state EEG-fMRI study. *Seizure*, 84, 78.

Ishihara T, et al. (2021) Childhood exercise predicts response inhibition in later life via changes in brain connectivity and structure. *NeuroImage*, 237, 118196.

Zhang Y, et al. (2020) Altered topological organization of functional brain networks in drug-naïve patients with paroxysmal kinesigenic dyskinesia. *Journal of the neurological sciences*, 411, 116702.

Walter H, et al. (2020) Self-control and interoception: Linking the neural substrates of craving regulation and the prediction of aversive interoceptive states induced by inspiratory breathing restriction. *NeuroImage*, 215, 116841.

Zhou Z, et al. (2020) A toolbox for brain network construction and classification (BrainNetClass). *Human brain mapping*, 41(10), 2808.