

Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 11, 2025

[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, software application, software toolkit, software resource, data analysis software

Defining Citation: [PMID:25725332](https://pubmed.ncbi.nlm.nih.gov/25725332/)

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

Funding:

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>

License: GNU General Public License

Record Creation Time: 20220129T080319+0000

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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 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

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

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

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

Dvorak J, et al. (2019) Aberrant brain network topology in fronto-limbic circuitry differentiates euthymic bipolar disorder from recurrent major depressive disorder. *Brain and behavior*, 9(6), e01257.

Weiler M, et al. (2018) Cognitive Reserve Relates to Functional Network Efficiency in Alzheimer's Disease. *Frontiers in aging neuroscience*, 10, 255.

Waller L, et al. (2018) GraphVar 2.0: A user-friendly toolbox for machine learning on

functional connectivity measures. *Journal of neuroscience methods*, 308, 21.

Voss MW, et al. (2016) Fitness, but not physical activity, is related to functional integrity of brain networks associated with aging. *NeuroImage*, 131, 113.

Kruschwitz JD, et al. (2015) GraphVar: a user-friendly toolbox for comprehensive graph analyses of functional brain connectivity. *Journal of neuroscience methods*, 245, 107.