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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/

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

Defining Citation: PMID: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

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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 <u>dkNET</u>.

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 drugresistant epilepsy patients with vagus nerve stimulators. Seizure, 92, 149.

Zhang Y, et al. (2020) Altered topological organization of functional brain networks in drugnaive 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.