

Resource Summary Report

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fMRI Classification in R

RRID:SCR_009519

Type: Tool

Proper Citation

fMRI Classification in R (RRID:SCR_009519)

Resource Information

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

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Description: They demonstrate and provide R code that can classify between groups of fMRI scans based on functional network connectivity differences, requiring only 4 lines of code to be altered. In addition, they include a detailed article explaining the methods behind and motivations of this tool. This code can also be altered to perform connectivity analysis and classification using ROI based methods by reading in distance arrays previously created. They run Independent component analysis (ICA) on fMRI data to establish functional networks, measure the functional connectivity between these networks using the temporal cross-correlations between independent component to create a distance matrix and indicating the networking. Connectivity properties are used as a feature matrix for an SVM classifier. Collectively, this project provides and explains both methods and code to perform functional network connectivity and fMRI SVM classification.

Abbreviations: fMRI Classification in R

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

Keywords: magnetic resonance, connectivity, fmri, independent component analysis, functional network, classification

Availability: GNU General Public License

Resource Name: fMRI Classification in R

Resource ID: SCR_009519

Alternate IDs: nlx_155681

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260801T190400+0000

Ratings and Alerts

No rating or validation information has been found for fMRI Classification in R.

No alerts have been found for fMRI Classification in R.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Anderson A, et al. (2013) Decreased small-world functional network connectivity and clustering across resting state networks in schizophrenia: an fMRI classification tutorial. Frontiers in human neuroscience, 7, 520.