Resource Summary Report

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Spatially Constrained Parcellation

RRID:SCR_002198
Type: Tool

Proper Citation

Spatially Constrained Parcellation (RRID:SCR_002198)

Resource Information

URL: http://www.nitrc.org/projects/cluster_roi/

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Description: A set of tools for deriving region of interest (ROI) atlases by whole brain clustering of task or resting state data. This resource also contains several atlases derived by parcellating publicly available resting state fMRI datasets. The initial release will include python scripts and ROI atlases developed to perform the analyses described in Craddock et. al., A whole brain fMRI atlas generated via spatially constrained spectral clustering, which is currently in revision in Human Brain Mapping. The scripts provide all of the tools necessary to derive an ROI atlases using spatially constrained Ncut spectral clustering. The scripts require python, numpy and scipy to run. Source code and parcellations now available! Go to http://ccraddock.github.io/cluster_roi/ for more information.

Abbreviations: Spatially Constrained Parcellation

Resource Type: atlas, software resource, data or information resource

Keywords: magnetic resonance

Funding:

Availability: Creative Commons Attribution-NonCommercial-ShareAlike License

Resource Name: Spatially Constrained Parcellation

Resource ID: SCR_002198

Alternate IDs: nlx_155533

Record Creation Time: 20220129T080212+0000

Record Last Update: 20250523T054228+0000

Ratings and Alerts

No rating or validation information has been found for Spatially Constrained Parcellation.

No alerts have been found for Spatially Constrained Parcellation.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Göttlich M, et al. (2017) Viewing socio-affective stimuli increases connectivity within an extended default mode network. NeuroImage, 148, 8.

Göttlich M, et al. (2015) BASCO: a toolbox for task-related functional connectivity. Frontiers in systems neuroscience, 9, 126.

Schaefer A, et al. (2014) Dynamic network participation of functional connectivity hubs assessed by resting-state fMRI. Frontiers in human neuroscience, 8, 195.

Craddock RC, et al. (2012) A whole brain fMRI atlas generated via spatially constrained spectral clustering. Human brain mapping, 33(8), 1914.