Subject Order-Independent Group ICA

RRID:SCR_009514
Type: Tool

Proper Citation

Subject Order-Independent Group ICA (RRID:SCR_009514)

Resource Information

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

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Description: While the traditional temporally concatenated Group ICA (TC-GICA) adopting three steps of PCA reduction, it could result in inconsistent and variable components when different subject orders were used, both for the group- and individual-level results. Such instability can further cause instable and thus unreliable statistical results. Subject Order-Independent Group ICA (SOI-GICA) aims to fix this problem by producing stable and reliable GICA results. For details please see the paper Subject Order-Independent Group ICA (SOI-GICA) for Functional MRI Data Analysis (Zhang et al., 2010, NeuroImage)(http://dx.doi.org/10.1016/j.neuroimage.2010.03.039). MICA is the toolbox implemented SOI-GICA for convenience of usage.

Abbreviations: SOI-GICA

Resource Type: software resource

Defining Citation: PMID:20338245

Keywords: analyze, gnome, independent component analysis, kde, linux, matlab, microsoft, magnetic resonance, nifti, posix/unix-like, software, statistical operation, win32 (ms windows), windows

Availability: GNU General Public License

Resource Name: Subject Order-Independent Group ICA

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Ratings and Alerts

No rating or validation information has been found for Subject Order-Independent Group ICA.

No alerts have been found for Subject Order-Independent Group ICA.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.


Qian A, et al. (2018) Effects of the 2-Repeat Allele of the DRD4 Gene on Neural Networks Associated With the Prefrontal Cortex in Children With ADHD. Frontiers in human neuroscience, 12, 279.


