Resource Summary Report

Fusion ICA Toolbox

RRID:SCR_003494
Type: Tool

Proper Citation

Fusion ICA Toolbox (RRID:SCR_003494)

Resource Information

URL: http://icatb.sourceforge.net/fusion/fusion_startup.php

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Description: A MATLAB toolbox which implements the joint Independent Component Analysis (ICA), parallel ICA and CCA with joint ICA methods. It is used to to extract the shared information across modalities like fMRI, EEG, sMRI and SNP data. * Environment: Win32 (MS Windows), Gnome, KDE * Operating System: MacOS, Windows, Linux * Programming Language: MATLAB * Supported Data Format: ANALYZE, NIfTI-1

Abbreviations: FIT

Synonyms: Fusion ICA Toolbox (FIT)

Resource Type: software resource, software application, data processing software, software toolkit

Keywords: analysis, functional magnetic resonance imaging, cca, image, eeg, neuroimaging, matlab, smri, snp, mri, algorithm, reusable library, independent component analysis, principal component analysis

Funding: NIBIB 1RO1EB005846;
NSF 0612076

Availability: GNU General Public License

Resource Name: Fusion ICA Toolbox

Resource ID: SCR_003494

Alternate IDs: nif-0000-36743

Alternate URLs: http://www.nitrc.org/projects/fit

Record Creation Time: 20220129T080219+0000

Record Last Update: 20250410T065011+0000

Ratings and Alerts

No rating or validation information has been found for Fusion ICA Toolbox.

No alerts have been found for Fusion ICA Toolbox.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Fu L, et al. (2018) Brain Network Alterations in Alzheimer's Disease Identified by Early-Phase PIB-PET. Contrast media & molecular imaging, 2018, 6830105.

Mangalathu-Arumana J, et al. (2018) Optimizing Within-Subject Experimental Designs for jICA of Multi-Channel ERP and fMRI. Frontiers in neuroscience, 12, 13.

Chen J, et al. (2018) Variability in Resting State Network and Functional Network Connectivity Associated With Schizophrenia Genetic Risk: A Pilot Study. Frontiers in neuroscience, 12, 114.

Cardenas VA, et al. (2018) EEG coherence related to fMRI resting state synchrony in long-term abstinent alcoholics. NeuroImage. Clinical, 17, 481.

Liu K, et al. (2017) Prediction of Mild Cognitive Impairment Conversion Using a Combination of Independent Component Analysis and the Cox Model. Frontiers in human neuroscience, 11, 33.

Kyathanahally SP, et al. (2017) Investigation of True High Frequency Electrical Substrates of fMRI-Based Resting State Networks Using Parallel Independent Component Analysis of Simultaneous EEG/fMRI Data. Frontiers in neuroinformatics, 11, 74.

Chu WL, et al. (2016) A Correlative Classification Study of Schizophrenic Patients with

Results of Clinical Evaluation and Structural Magnetic Resonance Images. Behavioural neurology, 2016, 7849526.

Kim SG, et al. (2015) Alterations of Gray and White Matter Networks in Patients with Obsessive-Compulsive Disorder: A Multimodal Fusion Analysis of Structural MRI and DTI Using mCCA+jICA. PloS one, 10(6), e0127118.

Gupta CN, et al. (2015) Genetic markers of white matter integrity in schizophrenia revealed by parallel ICA. Frontiers in human neuroscience, 9, 100.

Ouyang X, et al. (2015) Independent component analysis-based identification of covariance patterns of microstructural white matter damage in Alzheimer's disease. PloS one, 10(3), e0119714.

Wang Z, et al. (2015) Large-Scale Fusion of Gray Matter and Resting-State Functional MRI Reveals Common and Distinct Biological Markers across the Psychosis Spectrum in the B-SNIP Cohort. Frontiers in psychiatry, 6, 174.

Sambataro F, et al. (2012) Normal aging modulates prefrontoparietal networks underlying multiple memory processes. The European journal of neuroscience, 36(11), 3559.

Liu XH, et al. (2009) Defective interleukin-4/Stat6 activity correlates with increased constitutive expression of negative regulators SOCS-3, SOCS-7, and CISH in colon cancer cells. Journal of interferon & cytokine research : the official journal of the International Society for Interferon and Cytokine Research, 29(12), 809.