FIT Software

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Wednesday, October 25, 2017

Fusion ICA
Toolbox (FIT)

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Version History

FITv2.0c (May 10, 2012)

- ICASSO plugin is now added in the Fusion ICA toolbox (Joint ICA, CCA + joint ICA and Parallel ICA).
- Added dimensionality estimation for SNPs based on paper J. Chen, V. D. Calhoun, J. Liu, "ICA Order Selection Based on Consistency: Application to Genotype Data" (under review EMBS 2012).
- Added option to do permutation test in parallel ICA utilities menu.
- Option is now provided to do two sample t-test on loading coefficients in the parallel ICA toolbox.

FITv2.0b (Mar 20, 2009)

- Combi ICA algorithm developed by Petr Tichavsky, Zbynek Koldovsky, Arie Yeredor, German Gomez-Herrero and Eran Doron is now added to the FIT toolbox.
- Added an option to run analysis only on pair wise and individual combinations of features. To run this, set STACK_ALL_FEATURES to 0 in ica_fuse_defaults.m and set OPTIMIZE_FEATURES to 'Yes'. Please note that with this option you will be able to use only utilities like optimal features and plotting histograms.
- Analysis code is cleaned to handle the memory issues.
- Added a multi bar plot to view optimal feature results when large number of feature combinations are run.
- Removed the limitation to use MATLAB statistics toolbox when components are sorted based on two sample t-test on mixing coefficients. Sorting components based ontwo sample Kolmogorov-Smirnov test is removed for now.
- Removed the limitation to use at most two features when components are sorted based on spatial divergence.

FITv2.0a (Feb 8, 2008)

- Parallel ICA method implemented by Jean Liu is included to examine the shared information across modalities.

- Main GUI is changed to include the parallel ICA method.

FITv1.2a (Jan 15, 2008)

- Sorting GUI now contains an option to use feature histograms when spatial divergence sorting criteria is selected.
- Option is provided in display GUI to create EEG-fMRI movie when fusion is done using EEG and fMRI modalities.
- HTML help manual is provided to the run the analysis quickly.
- Latest SPM updates for volume functions are installed.
- Flip parameter for analyze images compatible with SPM2 is stored infusion information file. If the flip parameter is changed during display a warning message is printed.
- Convention for plotting right and left text is changed to make it the same as in SPM.

FITv1.1a (April 25, 2007)

- Option is provided to specify mask for each feature.
- Now back reconstructs group components.
- Magnified view of each joint component is provided when you click image orERP signal.
- EEG data is down sampled while saving the data to the disk.
- Now reads Nifti-data.
- Now allows fMRI features to have different dimensions.
- Batch script is also updated.

FITv1.0_beta: (Aug 2, 2006)

- New GUI is provided which implements joint ICA method. GUI contains user interface controls to do pre-analysis, analysis and display steps.
- Option is provided to sort joint ICA components.
- Batch script is provided to complement the user interface.