Resource Summary Report

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Normative Independent Component Analysis

RRID:SCR_002506
Type: Tool

Proper Citation

Normative Independent Component Analysis (RRID:SCR_002506)

Resource Information

URL: http://sites.google.com/site/marcocongedo/software/nica

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Description: Software program, executable under any Windows32 OS, performs Group BSS (Blind Source Separation) analysis comparing two groups of individuals and it performs NICA (Normative ICA) analysis where individuals are compared individually to a (normative) group. All analysis is performed in the frequency domain, that is, for all frequencies. The program also performs all these analysis for qEEG, that is, at the electrode level, without any BSS. The program does all computations, saves and displays results. The rationale and methods used in this program are explained in all details in the following paper: Congedo M, John ER, De Ridder D, Prichep L (2010) Group Independent Component Analysis of Resting-State EEG in Large Normative Samples International Journal of Psychophysiology 78, 89-99.

Abbreviations: NICA

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

Defining Citation: PMID:20598764

Keywords: eeg, meg, electrocorticography, fourier time-domain analysis, independent component analysis, spectral analysis, statistical operation, temporal transformation, blind source separation

Funding:

Resource Name: Normative Independent Component Analysis

Resource ID: SCR_002506

Alternate IDs: nlx_155906

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

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250417T065111+0000

Ratings and Alerts

No rating or validation information has been found for Normative Independent Component Analysis.

No alerts have been found for Normative Independent Component Analysis.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Lee SY, et al. (2021) Is the posterior cingulate cortex an on-off switch for tinnitus?: A comparison between hearing loss subjects with and without tinnitus. Hearing research, 411, 108356.

Han JJ, et al. (2020) Pre-treatment Ongoing Cortical Oscillatory Activity Predicts Improvement of Tinnitus After Partial Peripheral Reafferentation With Hearing Aids. Frontiers in neuroscience, 14, 410.

Lee SY, et al. (2020) Cortical Oscillatory Signatures Reveal the Prerequisites for Tinnitus Perception: A Comparison of Subjects With Sudden Sensorineural Hearing Loss With and Without Tinnitus. Frontiers in neuroscience, 14, 596647.

Han JJ, et al. (2018) Increased parietal circuit-breaker activity in delta frequency band and abnormal delta/theta band connectivity in salience network in hyperacusis subjects. PloS one, 13(1), e0191858.

Kop?ivová J, et al. (2013) Standardized low-resolution electromagnetic tomography in obsessive-compulsive disorder--a replication study. Neuroscience letters, 548, 185.