

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

FastICA

RRID:SCR_013110

Type: Tool

Proper Citation

FastICA (RRID:SCR_013110)

Resource Information

URL: <http://www.cis.hut.fi/projects/ica/fastica/>

Proper Citation: FastICA (RRID:SCR_013110)

Description: General-purpose unsupervised data-analysis tool, most often used for brain imaging data.

Abbreviations: FastICA

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

Keywords: independent component analysis, magnetic resonance, statistical operatio, matlab

Availability: GNU General Public License

Resource Name: FastICA

Resource ID: SCR_013110

Alternate IDs: nlx_155758

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

Record Creation Time: 20220129T080314+0000

Record Last Update: 20260905T133047+0000

Ratings and Alerts

No rating or validation information has been found for FastICA.

No alerts have been found for FastICA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 200 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Hahn A, et al. (2026) A unified approach for identifying PET-based neuronal activation and molecular connectivity with the functional PET toolbox. Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism, 46(2), 558.

Thorsen AL, et al. (2026) Altered frontal and occipital cortical microstructure in obsessive-compulsive disorder - a multisite mega-analysis. Molecular psychiatry, 31(7), 4074.

??can Z, et al. (2026) Evaluation of long-range temporal correlations during overt and covert attention in a steady state visual evoked potential based brain-computer interface. PloS one, 21(4), e0345793.

Lin C, et al. (2026) Hybrid sEMG decomposition method integrating gradient convolution kernel compensation and correlation-constrained FastICA. Journal of neuroengineering and rehabilitation, 23(1).

Amemiya S, et al. (2026) Spatiotemporal patterns of amyloid deposition as prognostic markers of Alzheimer's disease. Neuroradiology, 68(2), 457.

Sie JH, et al. (2026) Disease duration modulates BOLD representations of alpha oscillations in drug-resistant epilepsy: A concurrent EEG and fMRI study. Epilepsia, 67(2), 805.

Sayedelaht MA, et al. (2026) Enhancing biomedical signals through genetic algorithm optimized Exponentiated transmuted weibull denoising techniques. Scientific reports, 16(1).

N K, et al. (2026) Comparison of preprocessing techniques for effective cognitive analysis using electroencephalography (EEG). MethodsX, 16, 103821.

Saeed F, et al. (2026) Explainable EEG-based machine learning for early diagnosis of Alzheimer's disease and frontotemporal dementia. Scientific reports, 16(1).

Chu SA, et al. (2026) Integrated proteogenomic and metabolomic profiling of acute myeloid leukemias to identify molecular subtypes and associated therapy targets. Nature cancer, 7(6), 993.

Bajpe H, et al. (2026) The transcriptional regulatory network of the Escherichia coli MG1655 reference strain. Nucleic acids research, 54(3).

Lee DY, et al. (2026) Identifying affective state via clustering of temporal variability in limbic activity and mediating role of negative emotion. *Molecular psychiatry*, 31(3), 1546.

Lomi F, et al. (2026) Distinct cortical excitability and connectivity profiles within the human SMA complex. *bioRxiv : the preprint server for biology*.

Zamanzadeh M, et al. (2026) Normative modeling of MEG brain oscillations across the human lifespan. *Communications biology*, 9(1).

Betts JW, et al. (2025) Cryptogenic Stroke and Migraine: Using Probabilistic Independence and Machine Learning to Uncover Latent Sources of Disease from the Electronic Health Record. *ArXiv*.

Poudel S, et al. (2025) Interpreting roles of mutations associated with the emergence of *S. aureus* USA300 strains using transcriptional regulatory network reconstruction. *eLife*, 12.

Ni J, et al. (2025) Blind source separation and unmanned aerial vehicle classification using CNN with hybrid cross-channel and spatial attention module. *Scientific reports*, 15(1), 21905.

Barrantes-Cepas M, et al. (2025) Treatment effects of cladribine tablets on data-driven patterns of regional grey matter atrophy in multiple sclerosis. *Multiple sclerosis (Houndmills, Basingstoke, England)*, 31(6), 696.

Song X, et al. (2025) The impact of high-frequency rTMS treatment on brain activity in PSCI patients: a TMS-EEG study. *Frontiers in neurology*, 16, 1582437.

Lasko TA, et al. (2025) Unsupervised discovery of clinical disease signatures using probabilistic independence. *Journal of biomedical informatics*, 166, 104837.