

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 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: software application, image analysis software, software resource, data processing software

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: 20260728T043420+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 185 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

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.

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.

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.

Anliker AE, et al. (2025) Neural correlates of fatigue after traumatic brain injury. Brain communications, 7(2), fcaf082.

Albert L, et al. (2025) Extrastriate activity reflects sensorimotor-induced bias in estimating number of visual humans. Cerebral cortex (New York, N.Y. : 1991), 35(9).

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.

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

Servetnik MV, et al. (2025) Visual representations in the human brain rely on a reference frame that is in between allocentric and retinocentric coordinates. bioRxiv : the preprint server for biology.

Ota K, et al. (2025) Influence of local temperature on motor unit behavior during rapid contractions in humans. European journal of applied physiology, 125(9), 2581.

Geng X, et al. (2025) An improved feature extraction algorithm for EEG-based driving fatigue recognition. Scientific reports, 15(1), 33226.

Zhao Y, et al. (2025) Dual 500- μ s wide pulse neuromuscular electrical stimulation enhancing sensorimotor cortical excitability. Frontiers in human neuroscience, 19, 1629003.

van Velthoven CTJ, et al. (2025) Transcriptomic and spatial organization of telencephalic GABAergic neurons. *Nature*, 647(8088), 143.

Cheng Y, et al. (2025) Investigating the Amyloid-Tau-Neurodegeneration Framework in Alzheimer's Disease Using Semi-Supervised Multimodal Imaging Data Fusion. *medRxiv* : the preprint server for health sciences.

Jovanovi? V, et al. (2025) The Practical Implications of Re-Referencing in ERP Studies: The Case of N400 in the Picture-Word Verification Task. *Diagnostics (Basel, Switzerland)*, 15(2).

Tuomaala S, et al. (2025) Automated speech artefact removal from MEG data utilizing facial gestures and mutual information. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Forte V, et al. (2025) Neural plasticity in early potters: Shape analysis and TMS-EEG co-registration trace the rise of a new motor skill. *PloS one*, 20(1), e0316545.

Wang Q, et al. (2025) Le Petit Prince (LPP) multi-talker: Naturalistic 7 T fMRI and EEG dataset. *Scientific data*, 12(1), 829.

Che X, et al. (2025) Physical activity simultaneously improves working memory and ripple-spindle coupling. *Communications biology*, 8(1), 1187.

Wu J, et al. (2025) Clinical Effect on Cortical Reactivity of Theta Burst Versus High-Frequency Repetitive Transcranial Magnetic Stimulation in Parkinson's Disease: A TMS-EEG Study. *CNS neuroscience & therapeutics*, 31(9), e70605.