

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

CoSMoMVPA

RRID:SCR_014519

Type: Tool

Proper Citation

CoSMoMVPA (RRID:SCR_014519)

Resource Information

URL: <http://cosmomvpa.org>

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Description: A multi-modal multivariate pattern analysis of neuroimaging data in Matlab / GNU Octave. Links to examples, exercises, and information for developers are available on the main page.

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

Defining Citation: [DOI:10.1101/047118](https://doi.org/10.1101/047118)

Keywords: functional magnetic resonance imaging, magnetoencephalography, multivariate pattern analysis, neuroscience, weill cornell, software toolkit, data analysis software

Funding: Autonomous Province of Trento ;
Call Grandi Progetti 2012 ;
project Characterizing and improving brain mechanisms of attention - ATTEND

Availability: Available for download

Resource Name: CoSMoMVPA

Resource ID: SCR_014519

Alternate URLs: <https://github.com/CoSMoMVPA/CoSMoMVPA>

License: Expat (MIT) free, Open source software license

License URLs: <http://cosmomvpa.org/copyright.html>

Record Creation Time: 20220129T080320+0000

Ratings and Alerts

No rating or validation information has been found for CoSMoMVPa.

No alerts have been found for CoSMoMVPa.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 179 mentions in open access literature.

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

Avery JA, et al. (2025) Automatic engagement of limbic and prefrontal networks in response to food images reflects distinct information about food hedonics and inhibitory control. *Communications biology*, 8(1), 270.

Coldham Y, et al. (2025) Distinct neural representations of different linguistic components following sign language learning. *Communications biology*, 8(1), 353.

Li M, et al. (2025) Individual differences in vicarious pain as a shift in the self-other boundary. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Moerel D, et al. (2025) Neural decoding of competitive decision-making in Rock-Paper-Scissors. *Social cognitive and affective neuroscience*, 20(1).

Yan X, et al. (2025) Neural correlates of foreign speech imitation: The effects of age and music. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Starling-Alves I, et al. (2025) Children identified for classroom-based math support show altered resting-state connectivity in parietal brain regions. *Scientific reports*, 15(1), 27013.

Zheng Y, et al. (2025) Neural representation of sensorimotor features in language-motor areas during auditory and visual perception. *Communications biology*, 8(1), 41.

Feng YJ, et al. (2025) Decoding dynamic faces and scenes without awareness under discontinuous flash suppression. *Communications biology*, 8(1), 151.

Bailey LM, et al. (2025) Differential weighting of information during aloud and silent reading: Evidence from representational similarity analysis of fMRI data. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Tahedi M, et al. (2025) Progressive Thalamo-Cortical Disconnection in Amyotrophic Lateral Sclerosis Genotypes: Structural Degeneration and Network Dysfunction of Thalamus-Relayed Circuits. *European journal of neurology*, 32(5), e70146.

Yanagisawa K, et al. (2025) Optimistic people are all alike: Shared neural representations supporting episodic future thinking among optimistic individuals. *Proceedings of the National Academy of Sciences of the United States of America*, 122(30), e2511101122.

Kleinerova J, et al. (2025) Cerebellar dysfunction in frontotemporal dementia: intra-cerebellar pathology and cerebellar network degeneration. *Journal of neurology*, 272(4), 289.

Uluç I, et al. (2025) Decoding auditory working memory content from EEG responses to auditory-cortical TMS. *Brain stimulation*, 18(3), 649.

Karami A, et al. (2025) Distinct neural representational geometries of numerosity in early visual and association regions across visual streams. *Communications biology*, 8(1), 1029.

Li X, et al. (2025) Goal-directed modulation of neural activity during working memory maintenance. *Cerebral cortex* (New York, N.Y. : 1991), 35(11).

He Z, et al. (2025) Dynamic Neural Deactivation Bridges Direct and Competitive Inhibition Processes. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(43), e06833.

Iriye HM, et al. (2025) An embodied perspective: Angular gyrus and precuneus decode selfhood in memories of naturalistic events. *Imaging neuroscience* (Cambridge, Mass.), 3.

Uluç I, et al. (2025) Decoding auditory working memory content from EEG aftereffects of auditory-cortical TMS. *bioRxiv : the preprint server for biology*.

Kohler N, et al. (2025) Distinct and content-specific neural representations of self- and other-produced actions in joint piano performance. *Frontiers in human neuroscience*, 19, 1543131.

Cheng Y, et al. (2025) Shared and Unique Neural Codes for Biological Motion Perception in Humans and Macaque Monkeys. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(18), e2411562.