

Resource Summary Report

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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, data processing software, software application, software resource, 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 193 mentions in open access literature.

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

Abassi E, et al. (2026) The representation of speech conversations in the human auditory cortex: role of social and semantic factors. Cerebral cortex (New York, N.Y. : 1991), 36(3).

Wei Z, et al. (2026) Parallel processing of distinct facial signals for the rapid evaluation of social agents. iScience, 29(3), 114978.

Sabo M, et al. (2026) Multiple partially overlapping neural modules orchestrate conflict processing. Imaging neuroscience (Cambridge, Mass.), 4.

Wu Y, et al. (2026) Three-dimensional scene boundary representations for wall orientation and distance are represented distinctly in the human visual cortex. PLoS biology, 24(3), e3003541.

Doreswamy KK, et al. (2026) Neuronal Representation of Auditory Distance Percepts vs. Cues in Human Auditory Cortex. Journal of the Association for Research in Otolaryngology : JARO, 27(2), 301.

Zamboni E, et al. (2026) Early spatiotemporal dynamics of navigational affordance coding in the dorsal visual cortex. Nature communications, 17(1), 1361.

Moerel D, et al. (2026) Rotation-tolerant representations elucidate the time-course of high-level object processing. PloS one, 21(4), e0347992.

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.

Lehnen JM, et al. (2025) Vocal Emotion Perception and Musicality-Insights from EEG Decoding. Sensors (Basel, Switzerland), 25(6).

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).

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

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.

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

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

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.

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.

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

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.