

Resource Summary Report

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The Decoding Toolbox

RRID:SCR_017424

Type: Tool

Proper Citation

The Decoding Toolbox (RRID:SCR_017424)

Resource Information

URL: <https://sites.google.com/site/tdtdecodingtoolbox/>

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Description: Software Matlab toolbox for multivariate analysis of functional and structural MRI data. Software package for multivariate analyses of functional imaging data.

Abbreviations: TDT

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

Defining Citation: [PMID:25610393](#)

Keywords: Multivariate, analysis, structural, MRI, data, functional, imaging, brain

Funding: German Ministry of Education and Research ;
German Research Foundation

Availability: Free, Available for download, Freely available

Resource Name: The Decoding Toolbox

Resource ID: SCR_017424

Record Creation Time: 20220129T080335+0000

Record Last Update: 20260806T054651+0000

Ratings and Alerts

No rating or validation information has been found for The Decoding Toolbox.

No alerts have been found for The Decoding Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

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

Howell P, et al. (2025) Distinguishing the activity of adjacent somatosensory nuclei within the brainstem using 3T fMRI. *Imaging neuroscience* (Cambridge, Mass.), 3.

Beinnes GK, et al. (2025) Differential neural decoding of alarm and avoidance information from vocal alarm calls in humans. *Communications biology*, 8(1), 818.

Li Y, et al. (2025) The neural correlates of logical-mathematical symbol systems processing resemble those of spatial cognition more than language processing. *iScience*, 28(4), 112016.

Zhu J, et al. (2025) Neural architecture of social punishment: Insights from a queue-jumping scenario. *iScience*, 28(3), 111988.

Diaz-Gutierrez P, et al. (2025) Group membership and stereotype content jointly affect neural processing during resource allocation decisions. *Scientific reports*, 15(1), 39057.

Garlichs A, et al. (2024) Prediction error processing and sharpening of expected information across the face-processing hierarchy. *Nature communications*, 15(1), 3407.

Gayet S, et al. (2022) Preparatory attention incorporates contextual expectations. *Current biology : CB*, 32(3), 687.

Kuhl U, et al. (2021) Mathematical learning deficits originate in early childhood from atypical development of a frontoparietal brain network. *PLoS biology*, 19(9), e3001407.

Peer M, et al. (2021) The human brain uses spatial schemas to represent segmented environments. *Current biology : CB*, 31(21), 4677.

Skeide MA, et al. (2020) Neurobiological origins of individual differences in mathematical ability. *PLoS biology*, 18(10), e3000871.

Zhang S, et al. (2020) Pain Control by Co-adaptive Learning in a Brain-Machine Interface. *Current biology : CB*, 30(20), 3935.

Pischedda D, et al. (2020) The Effect of Counterfactual Information on Outcome Value Coding in Medial Prefrontal and Cingulate Cortex: From an Absolute to a Relative Neural Code. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(16), 3268.