

Resource Summary Report

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Residue Iteration Decomposition

RRID:SCR_022174

Type: Tool

Proper Citation

Residue Iteration Decomposition (RRID:SCR_022174)

Resource Information

URL: <http://cns.hkbu.edu.hk/RIDE.htm>

Proper Citation: Residue Iteration Decomposition (RRID:SCR_022174)

Description: Software Matlab based toolbox for temporal decomposition of EEG signal. Used for decomposition, reconstruction, and single trial analysis of event related potentials.

Abbreviations: RIDE

Synonyms: Residue Iteration DEcomposition

Resource Type: software resource, software toolkit

Defining Citation: [PMID:25455337](#)

Keywords: temporal decomposition of EEG signal, EEG, event related potentials, single trial analysis, event related brain potentials, ERP, ERP decomposition method, ERP reconstruction, Latency variability, residue iteration decomposition, single trial analysis

Funding: Germany Hong Kong Joint Research Scheme ;
Hong Kong Baptist University ;
Hong Kong Research Grant Council ;
National Natural Science Foundation of China

Availability: Free, Available for download, Freely available

Resource Name: Residue Iteration Decomposition

Resource ID: SCR_022174

Record Creation Time: 20220421T050139+0000

Record Last Update: 20260905T133309+0000

Ratings and Alerts

No rating or validation information has been found for Residue Iteration Decomposition.

No alerts have been found for Residue Iteration Decomposition.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Rempel S, et al. (2026) App-based mindfulness meditation training enhances cognitive flexibility and modulates ACC and medial frontal gyrus activation during task switching in adolescent OCD. *Neuroimage. Reports*, 6(2), 100347.

Eggert E, et al. (2023) The role of visual association cortices during response selection processes in interference-modulated response stopping. *Cerebral cortex communications*, 4(1), tgac050.

Wehmeyer L, et al. (2023) Electrophysiological Correlates of Proactive Control and Binding Processes during Task Switching in Tourette Syndrome. *eNeuro*, 10(4).

Graf K, et al. (2023) Preserved perception-action integration in adolescents after a COVID-19 infection. *Scientific reports*, 13(1), 13287.

Koyun AH, et al. (2023) Neurophysiological mechanisms underlying the differential effect of reward prospect on response selection and inhibition. *Scientific reports*, 13(1), 10903.

Eggert E, et al. (2022) Cognitive science theory-driven pharmacology elucidates the neurobiological basis of perception-motor integration. *Communications biology*, 5(1), 919.

Takács Á, et al. (2022) Protocol to decode representations from EEG data with intermixed signals using temporal signal decomposition and multivariate pattern-analysis. *STAR protocols*, 3(2), 101399.

Vahid A, et al. (2022) On the relative importance of attention and response selection processes for multi-component behavior - Evidence from EEG-based deep learning. *Neuroimage. Reports*, 2(3), 100118.