# Resource Summary Report

Generated by kravitz2 on Jul 31, 2026

## 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 toolkit, software resource

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

**Availability:** Free, Available for download, Freely available

**Resource Name:** Residue Iteration Decomposition

**Resource ID:** SCR_022174

**Record Creation Time:** 20220421T050139+0000

**Record Last Update:** 20260729T044530+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 5 mentions in open access literature.

**Listed below are recent publications.** The full list is available at kravitz2 .

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

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

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

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.

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.