

# Resource Summary Report

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## Sparse Learning with Efficient Projections

RRID:SCR\_001870

Type: Tool

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### Proper Citation

Sparse Learning with Efficient Projections (RRID:SCR\_001870)

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### Resource Information

**URL:** <http://www.public.asu.edu/~jye02/Software/SLEP/>

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**Description:** Software package that provides functions for solving a family of sparse learning algorithms. The functions implemented enjoy the convergence rate of  $O(1/k^2)$ , although the objective function is non-smooth. Main features: \* First-Order Method. At each iteration, they only need to evaluate the function value and the gradient; and thus the algorithms can handle large-scale sparse data. \* Optimal Convergence Rate. The convergence rate  $O(1/k^2)$  is optimal for smooth convex optimization via the first-order black-box methods. \* Efficient Projection. The projection problem (proximal operator) can be solved efficiently. \* Pathwise Solutions. The SLEP package provides functions that efficiently compute the pathwise solutions corresponding to a series of regularization parameters by the warm-start technique.

**Abbreviations:** SLEP

**Synonyms:** Sparse Learning with Efficient Projections (SLEP), SLEP: Sparse Learning with Efficient Projections

**Resource Type:** software resource

**Keywords:** sparse

**Availability:** Free, Freely available

**Resource Name:** Sparse Learning with Efficient Projections

**Resource ID:** SCR\_001870

**Alternate IDs:** SciRes\_000170

**Record Creation Time:** 20220129T080210+0000

**Record Last Update:** 20260808T185735+0000

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## Ratings and Alerts

No rating or validation information has been found for Sparse Learning with Efficient Projections.

No alerts have been found for Sparse Learning with Efficient Projections.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Munsell BC, et al. (2019) Relationship between neuronal network architecture and naming performance in temporal lobe epilepsy: A connectome based approach using machine learning. Brain and language, 193, 45.

Chen X, et al. (2017) Hierarchical High-Order Functional Connectivity Networks and Selective Feature Fusion for MCI Classification. Neuroinformatics, 15(3), 271.

Suk HI, et al. (2015) Supervised Discriminative Group Sparse Representation for Mild Cognitive Impairment Diagnosis. Neuroinformatics, 13(3), 277.