

Resource Summary Report

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Boruta

RRID:SCR_016234

Type: Tool

Proper Citation

Boruta (RRID:SCR_016234)

Resource Information

URL: <https://CRAN.R-project.org/package=Boruta>

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Description: Algorithm that performs feature selection. It finds relevant features by comparing original attributes' importance with importance achievable at random, estimated using their permuted copies (shadows).

Synonyms: Boruta algorithm, Boruta: Wrapper Algorithm for All Relevant Feature Selection

Resource Type: algorithm resource, software resource

Keywords: feature, selection, algorithm, wrapper, estimation, shadow, copy

Availability: Free, Available to download

Resource Name: Boruta

Resource ID: SCR_016234

Alternate URLs: <https://mbq.github.io/Boruta/>

License: GPL-2, GPL-3

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260819T044436+0000

Ratings and Alerts

No rating or validation information has been found for Boruta.

No alerts have been found for Boruta.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Lötsch J, et al. (2026) Resolving Interpretation Challenges in Machine Learning Feature Selection With an Iterative Approach in Biomedical Pain Data. *European journal of pain* (London, England), 30(2), e70221.

Lötsch J, et al. (2026) Dimensionality-modulated generative AI for safe biomedical dataset augmentation. *iScience*, 29(1), 114321.

Thursby SJ, et al. (2026) Epigenetic Instability-Based Metrics in Cell-Free DNA for Early Cancer Detection. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(8), 1528.

Luo H, et al. (2025) Large-Scale T-cell Receptor Repertoire Profiling Unveils Tumor-Specific Signals for Diagnosing Indeterminate Pulmonary Nodules. *Cancer research*, 85(24), 5141.

Santiago-Borges JM, et al. (2025) Uropathogenic *Escherichia coli* niche occupancy determines the effects of mucosal vaccine against FimH. *Cell reports*, 44(8), 116077.

Garcia Lopez A, et al. (2024) Risk assessment with gene expression markers in sepsis development. *Cell reports. Medicine*, 5(9), 101712.

Schall PZ, et al. (2024) Predictive modeling of oocyte maternal mRNA features for five mammalian species reveals potential shared and species-restricted regulators during maturation. *Physiological genomics*, 56(1), 9.

Whyte BA, et al. (2023) The role of body size and cuticular hydrocarbons in the desiccation resistance of invasive Argentine ants (*Linepithema humile*). *The Journal of experimental biology*, 226(16).

Lötsch J, et al. (2021) Machine Learning Refutes Loss of Smell as a Risk Indicator of Diabetes Mellitus. *Journal of clinical medicine*, 10(21).

Yan Z, et al. (2020) Integrated metabolomics and gut microbiome to the effects and mechanisms of naoxintong capsule on type 2 diabetes in rats. *Scientific reports*, 10(1), 10829.

Lin J, et al. (2018) Prediction of neurologic deterioration based on support vector machine algorithms and serum osmolarity equations. *Brain and behavior*, 8(7), e01023.