

# Resource Summary Report

Generated by [NIF](#) on Aug 10, 2026

## Apache Hadoop

RRID:SCR\_011879

Type: Tool

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### Proper Citation

Apache Hadoop (RRID:SCR\_011879)

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### Resource Information

**URL:** <http://hadoop.apache.org/>

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**Description:** Software library providing a framework that allows for the distributed processing of large data sets across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. Rather than rely on hardware to deliver high-availability, the library itself is designed to detect and handle failures at the application layer, so delivering a highly-available service on top of a cluster of computers, each of which may be prone to failures. The project includes these modules: \* Hadoop Common: The common utilities that support the other Hadoop modules. \* Hadoop Distributed File System (HDFS): A distributed file system that provides high-throughput access to application data. \* Hadoop YARN: A framework for job scheduling and cluster resource management. \* Hadoop MapReduce: A YARN-based system for parallel processing of large data sets.

**Abbreviations:** Hadoop

**Resource Type:** software toolkit, software resource

**Keywords:** computing

**Availability:** Open unspecified license

**Resource Name:** Apache Hadoop

**Resource ID:** SCR\_011879

**Alternate IDs:** OMICS\_01210

**Record Creation Time:** 20220129T080307+0000

**Record Last Update:** 20260810T040547+0000

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## Ratings and Alerts

No rating or validation information has been found for Apache Hadoop.

No alerts have been found for Apache Hadoop.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 63 mentions in open access literature.

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

Han X, et al. (2024) When we talk about Big Data, What do we really mean? Toward a more precise definition of Big Data. *Frontiers in big data*, 7, 1441869.

Hagan NKA, et al. (2024) A scalable MapReduce-based design of an unsupervised entity resolution system. *Frontiers in big data*, 7, 1296552.

Prasanna S, et al. (2024) A scalable tool for analyzing genomic variants of humans using knowledge graphs and graph machine learning. *Frontiers in big data*, 7, 1466391.

Reedy P, et al. (2023) Interpol review of digital evidence for 2019-2022. *Forensic science international. Synergy*, 6, 100313.

Almeida A, et al. (2023) Time series big data: a survey on data stream frameworks, analysis and algorithms. *Journal of big data*, 10(1), 83.

Asha J, et al. (2023) Comparison of platelet indices in dengue fever patients based on platelet transfusion: A prospective observational study in a tertiary care center. *Asian journal of transfusion science*, 17(1), 21.

Özgüven YM, et al. (2023) Distributed messaging and light streaming system for combating pandemics: A case study on spatial analysis of COVID-19 Geo-tagged Twitter dataset. *Journal of ambient intelligence and humanized computing*, 14(2), 773.

Schubotz M, et al. (2022) Caching and Reproducibility: Making Data Science Experiments Faster and FAIRer. *Frontiers in research metrics and analytics*, 7, 861944.

Chhetri TR, et al. (2022) Knowledge Graph Based Hard Drive Failure Prediction. *Sensors (Basel, Switzerland)*, 22(3).

Milkman KL, et al. (2022) A 680,000-person megastudy of nudges to encourage vaccination in pharmacies. *Proceedings of the National Academy of Sciences of the United States of America*, 119(6).

Torrens M, et al. (2022) A Banking Platform to Leverage Data Driven Marketing with Machine Learning. *Entropy (Basel, Switzerland)*, 24(3).

Koppad S, et al. (2021) Cloud Computing Enabled Big Multi-Omics Data Analytics. *Bioinformatics and biology insights*, 15, 11779322211035921.

Tantry TP, et al. (2021) Self-learning software tools for data analysis in meta-analysis. *Korean journal of anesthesiology*, 74(5), 459.

Cortis K, et al. (2021) Over a decade of social opinion mining: a systematic review. *Artificial intelligence review*, 54(7), 4873.

Thulin A, et al. (2021) Discordance of PIK3CA and TP53 mutations between breast cancer brain metastases and matched primary tumors. *Scientific reports*, 11(1), 23548.

Matalonga L, et al. (2021) Solving patients with rare diseases through programmatic reanalysis of genome-phenome data. *European journal of human genetics : EJHG*, 29(9), 1337.

Maddocks S, et al. (2020) Burden of caring for children living with human immunodeficiency virus in a semi-rural South African community. *South African family practice : official journal of the South African Academy of Family Practice/Primary Care*, 62(1), e1.

Recanatini M, et al. (2020) Drug Research Meets Network Science: Where Are We? *Journal of medicinal chemistry*, 63(16), 8653.

Kapil G, et al. (2020) Attribute based honey encryption algorithm for securing big data: Hadoop distributed file system perspective. *PeerJ. Computer science*, 6, e259.

Prathapan S, et al. (2020) The rising complexity and burden of multimorbidity in a middle-income country. *PloS one*, 15(12), e0243614.