

Resource Summary Report

Generated by [RRID](#) on Aug 15, 2026

Fedrann

RRID:SCR_027416

Type: Tool

Proper Citation

Fedrann (RRID:SCR_027416)

Resource Information

URL: <https://github.com/jzhang-dev/FEDRANN>

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Description: Software scalable pipeline for overlap detection based on large-scale sequencing data. It is based on three steps: feature extraction, dimenality reduction, and approximate k-nearest neighbor search. Used for effective long-read overlap detection based on dimensionality reduction and approximate nearest neighbors.

Resource Type: software toolkit, data processing software, software application, data analysis software, software resource, source code, sequence analysis software

Defining Citation: [DOI:10.1101/2025.05.30.656979](https://doi.org/10.1101/2025.05.30.656979)

Keywords: long-read overlap detection, overlap detection, large-scale sequencing data, feature extraction, dimenality reduction, approximate k-nearest neighbor search,

Funding: National Key RandD Program of China

Availability: Free, Available for download, Freely available,

Resource Name: Fedrann

Resource ID: SCR_027416

License: GNU GPL v3

Record Creation Time: 20250912T055219+0000

Record Last Update: 20260815T183303+0000

Ratings and Alerts

No rating or validation information has been found for Fedrann.

No alerts have been found for Fedrann.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Zhang JY, et al. (2026) FEDRANN: effective long-read overlap detection based on dimensionality reduction and approximate nearest neighbors. GigaScience, 15.