

# Extract Document Co-Citation Network (Core Only)

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## Description

Extracts the document co-citation network from an ISI database.

Each document in the input database is represented by a node. An edge is drawn between the nodes for two documents if and only if they were cited by a common document in your dataset.

## Core Document vs. Non-Core Document

There is a distinction drawn between documents contained in your dataset and documents in general. A document in your dataset is called a "core document". Your documents may (and probably do) reference non-core documents.

The output network of this algorithm will contain nodes representing only core documents. For an algorithm that will represent non-core documents too, see [Extract Document Co-Citation Network \(Core and References\)](#).

## Analyses

The output network will include the following summaries of your dataset:

- Node (Document)
  - A prettified label for identifying this document.
  - A prettified string giving the journal (or other source) of this document (called 'source').
- Edge (Co-Citation)
  - The number of documents in your dataset which cited both of these documents.
    - This figure is also given with three common normalizations: [Jaccard](#), [cosine](#), and [Dice](#).
  - Publication year of the earliest co-citing document.
  - Publication year of the most recent co-citing document.

## Usage Hints

Load an ISI file into the tool, then create a database from it using [the ISI database loader](#).

It is strongly recommended that the database be cleaned before extracting any co-citation networks from it.

For a quick analysis of a small dataset you may wish to [merge together author entities with identical names](#). For a scientifically sound analysis of a larger dataset, you can [find author entity merging suggestions](#) (or [manually set your own merging orders from scratch](#)) and [perform the merge](#).

Then, you will probably want to [merge together journal entities according to recognized variants](#).

Finally, you must [match references up to documents in your dataset](#) (there are no citations to analyze, otherwise).

## Implementation Details

The specific queries run by the tool can be found in the [source code](#).