

Extract Document Co-Citation Network

This documentation refers to the database version of 'Extract Document Co-Citation'. There is also a non-database version of the same algorithm that I don't believe is currently documented anywhere. The concept is the same but the details are different.

Description

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

Each document and each referenced 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 even non-core documents.

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 or referenced 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 a dataset into the tool, then [extract the paper-citation network](#) and execute this algorithm.

See Also

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