

Extract Document Source Citation Network (Core and References)

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Description

Extracts the Source citation network from an ISI database.

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

Core Source vs. Non-Core Source

There is a distinction drawn between Sources contained in your dataset and Sources in general. A Source which is in your dataset is called a "Core Source".

The output network of this algorithm will contain nodes representing even Non-Core Sources. For an algorithm that will represent only Core Sources, see [Extract Document Source Citation Network \(Core Only\)](#).

Analyses

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

- Node (Source)
 - All actual data from the [Sources Table](#).
 - A generated prettified label identifying this Source.
 - A binary attribute 'IS_FOUND_IN_DOCUMENT' which is 0 when this is a Non-Core Source and is 1 when this is not.
- Edge (Citation)
 - The number of Documents in the target node Source which cited Documents in the source node Source.

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

Links

- [Extract Document Citation Network \(Core Only\)](#)
- [Load ISI File into Database](#)
- [Merge Identical ISI People](#)
- [Suggest ISI People Merges](#)
- [Create Merging Table](#)
- [Merge Entities](#)
- [Merge Document Sources](#)
- [Match References To Papers](#)

See Also



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