

Extract Document Source Bibliographic Coupling Network

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Description

Extracts the journal bibliographic coupling network from an ISI database.

Each journal that is the source of a document in the input database is represented by a node. An edge is drawn between the nodes for two journals if and only if a common reference was cited by a document from each.

Analyses

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

- Node (Document)
 - A prettified label identifying this journal (or other kind of document source).
- Edge (Bibliographic Coupling)
 - For both journals, consider all of the references among all of the documents in your dataset which are from them. The total number of distinct references (that is, counted without multiplicity) in common is called 'times_coupled'.
 - This figure is also given with three common normalizations: [Jaccard](#), [cosine](#), and [Dice](#).

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 journal information in the database be cleaned before extracting the journal bibliographic coupling network. You will probably want to [merge together journal entities according to recognized variants](#).

Implementation Details

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