

Match References to Papers

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Description

The use of the word "Paper" and "References" in this algorithm name is a misnomer. It should actually be *Match Citations to Documents* to maintain technicality.

This algorithm attempts to match [Citations](#) to [Documents](#) (in an "is a" relationship). A citation is considered to match a document if and only if:

- the Citation Author, Page Number, Source, Volume, and Year are all provided and are valid;
- the Citation Author matches the first Author of the document ;
- the Citation Page Number matches the document Beginning Page;
- the Citation Source and Document Source are exactly the same Source;
- the Citation Volume matches the document Volume;
- the citation Year matches the document Year.

The output of this algorithm is a copy of the input database, but with the [Citations Table](#) table updated to point to the [Documents Table](#) table (via the *docum ent_id* field). When it is finished, it reports how many citations were matched to documents and how many citations were over-matched to documents. An over-matched citation is a citation that matches more than one 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 matching citations to documents.

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](#).

Links

- [Source code](#)
- [The string templates of the database queries](#) used to determine the matches and over matches from References to Documents.
- [Load ISI File into Database](#)
- [Merge Identical ISI People](#)
- [Merge Document Sources](#)