Extract Author Co-Citation Network

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Description
Extracts the author co-citation network from an ISI database.

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

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

- **Node (Author)**
  - Number of documents authored in your dataset.
  - Total number of times cited. Note that this according to per-document citations in the global dataset as recorded by ISI and not according to citations contained only within your dataset.
  - Publication year of the earliest document.
  - Publication year of the most recent document.

- **Edge (Co-Citation)**
  - The number of documents which cited both of these authors.
    - 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 query run by the tool can be found in the source code.