## Smart Literature Search

A short intro to Litmaps, Connected Papers and Inciteful

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## Roadmap

Motivation

Examples

Reference

When are these tools useful

While doing research, you may want to know...

- What are the papers that derived from one seminal paper?
- What are the earlier papers on which a newer paper builds?
- What are the papers commonly cited by 2+ papers?
- Are various fields connected to / separate from each other?
- Do I miss any important paper I should cite?

### Some Useful Tools

There are open-source tools out there you can use to do these things easily and also **visualize** them!

#### 1. Litmaps

- $\blacksquare$  n papers
- Interactive map visulization
- Real-time suggestions

#### 2. Connected papers

- 1 paper at a time
- By similarity (co-citation and bib coupling), not citation links

#### 3. Inciteful

- 1 or n papers at a time
- Real-time suggestions
- No visualization

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Some illustrative examples

#### What are the connected papers to [Aiyagari, 1994]?



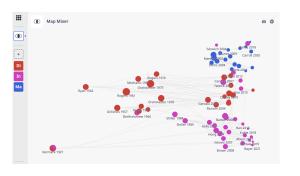
- Both prior and derivative papers
- Node sizes: citation
- Edges between nodes: citation connections
- Select/deselect papers to build the graph
- Clicking one node shows its connected nodes within the graph
- Link

How are [Shiller and Pound, 1989] and [Kermack et al., 1927] connected?



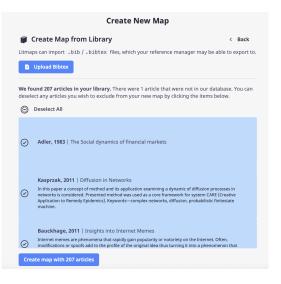
- Enter the 2 papers
- Choose papers in the suggested list to expand the graph
- Real-time algorithms update the suggestions based on your choices
- Link

How are the tech diffusion, investors contagion, and macroeconomic expectations literature connected?



- Build separate maps for each topic
- Use "mixer" function to see if they are connected between each other
- Link

Do I miss any papers in my bibliography? [Carroll and Wang, 2021]



- Import your prepared bib file
- Exam if there are suggested papers that you should have cited
- Link

#### Other functions

- Import and export bib files: integrated with LATEX
- Public sharing: add a link to your website or paper
- Auto updates: keep up-to-date with emerging literature

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Reference

Aiyagari, S. R. (1994).

Uninsured idiosyncratic risk and aggregate saving.

The Quarterly Journal of Economics, 109(3):659-684.

Carroll, C. D. and Wang, T. (2021).

Epidemiological expectations in economics.

In Handbook of Economic Expectations.

Kermack, W. O., McKendrick, A. G., and Walker, G. T. (1927).

A contribution to the mathematical theory of epidemics.

Proceedings of the Royal Society of London. Series A, Containing Papers of a Mathematical and Physical Character, 115(772):700–721.

Shiller, R. J. and Pound, J. (1989).

Survey evidence on diffusion of interest and information among investors.

Journal of Economic Behavior & Organization, 12(1):47-66.