On the Fringe:
A Visualization Tool to Support Literature Review

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CPSC 547

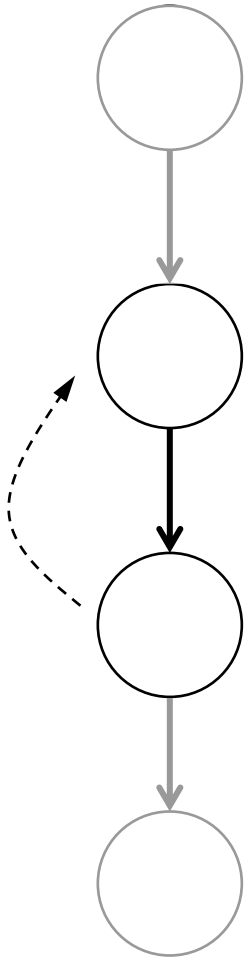
Paper Data

- CHI & UIST papers (from Autodesk)
- Year, authors, title, abstract, DOI and citation count
- 3501 papers

Network Data

- References between papers = directed links
- 27587 links

Why: Exploration



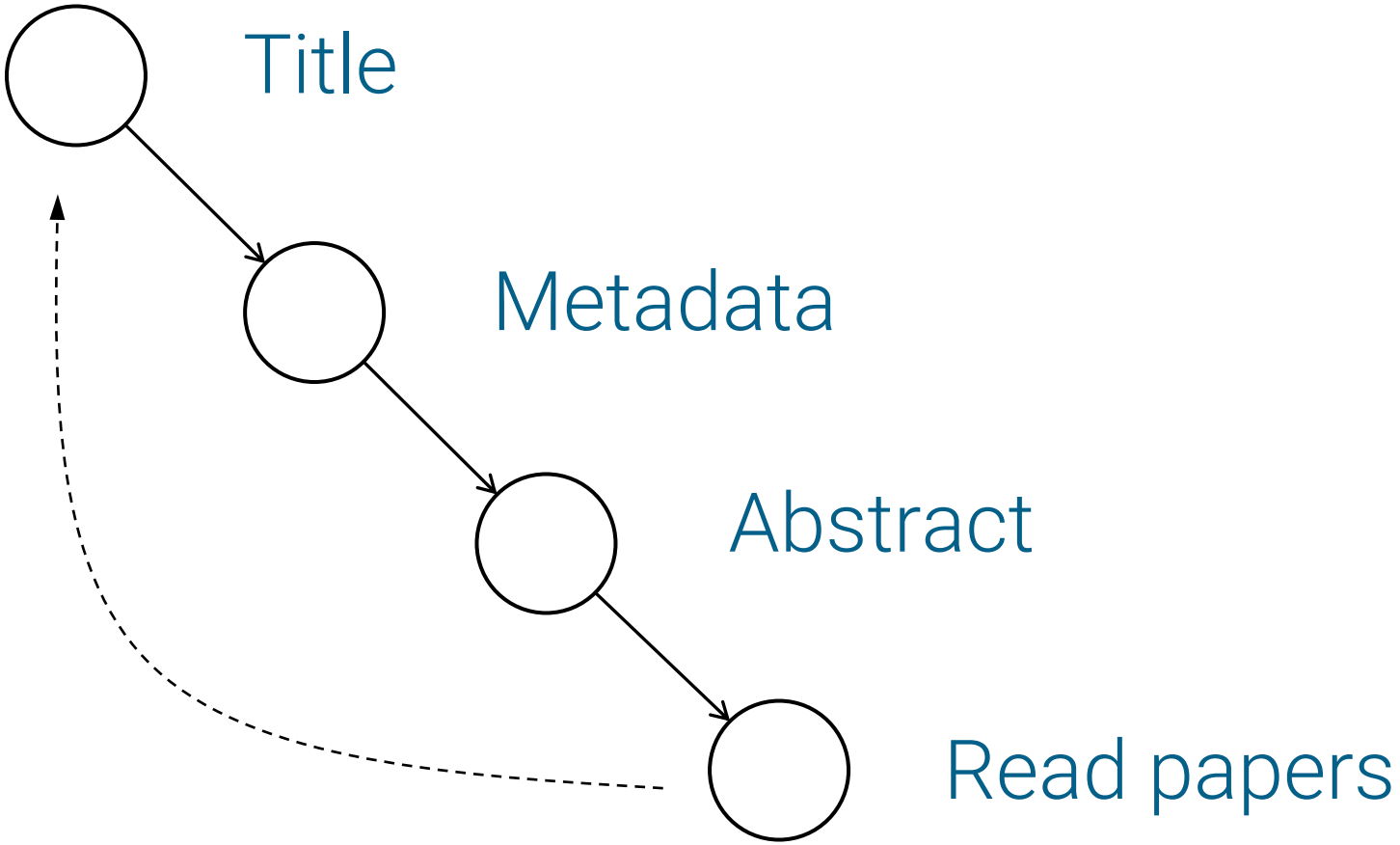
Read initial papers

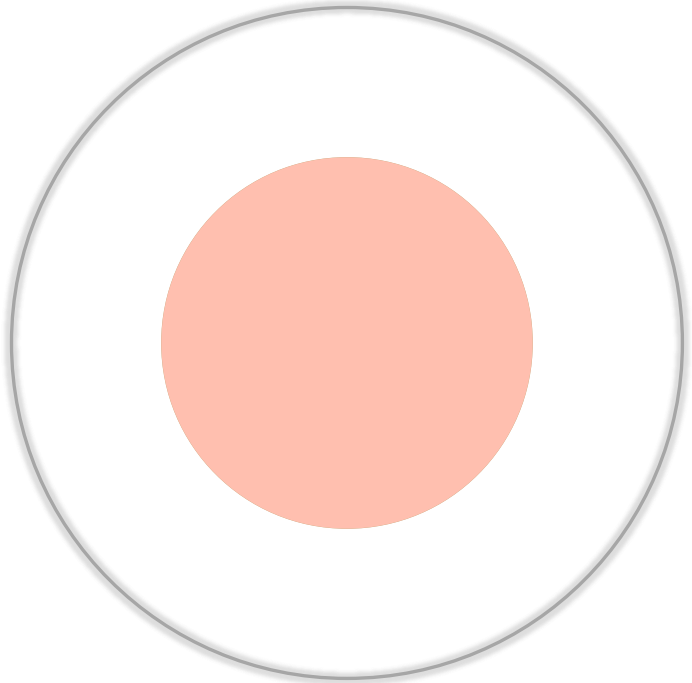
Find other relevant papers

Decide what to read next

Organize your references

Multi-level Decision Process





How: Encode

internal citation count

external citation count

connectivity score

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external citation count

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How: Encode

internal citation count

external citation count

connectivity score

Scale

dozens of papers per view

dozens of links

no **aggregation**

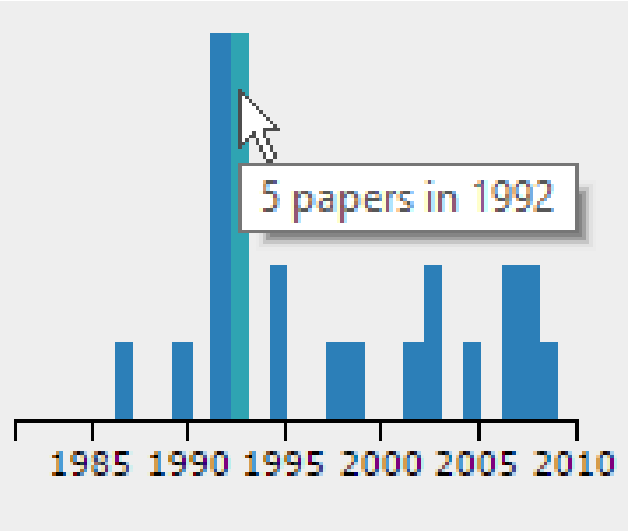
Future work

linked highlighting

filtering

search

give control over algorithm weights

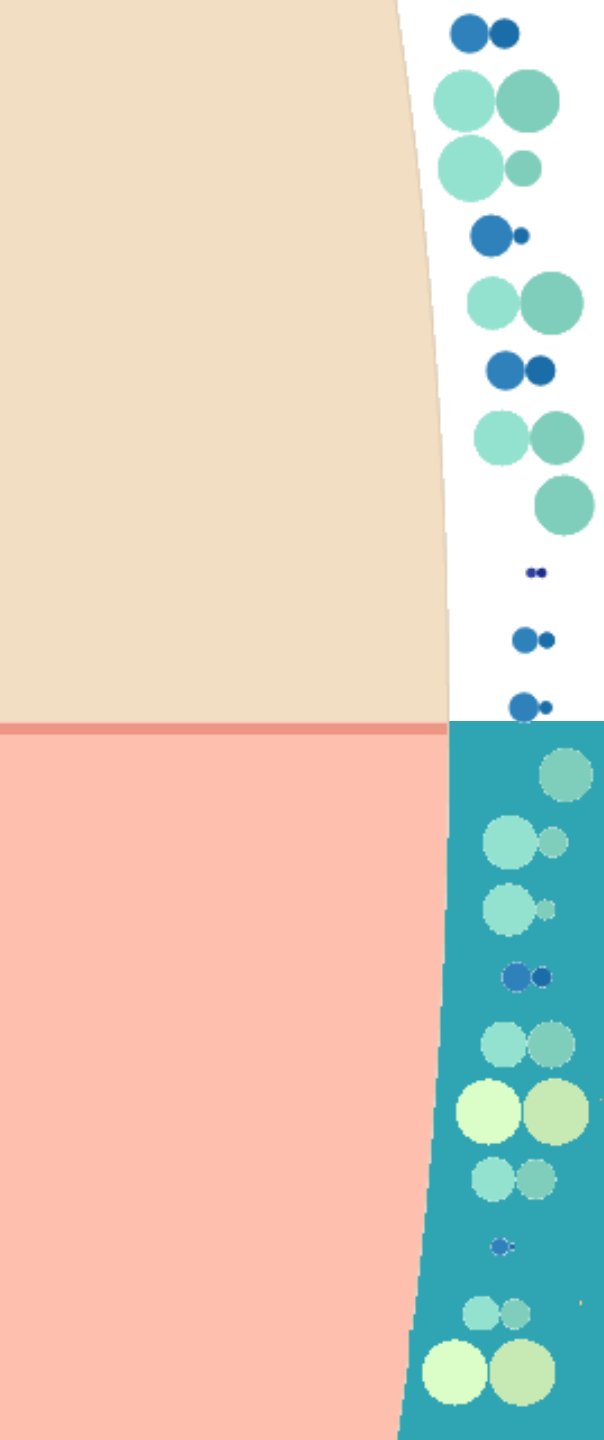


Conclusion

Finding papers & deciding which one to read

Custom relevance algorithm
(citation counts + connectivity)

Size, color, links, semantic zoom & faceted views



Thank you.

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