On the Fringe: A Visualization Tool to Support Literature Review

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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

1. Read initial papers
2. Find other relevant papers
3. Decide what to read next
4. Organize your references
Multi-level Decision Process

Title → Metadata → Abstract → Read papers
How: Encode

- internal citation count
- external citation count
- connectivity score
How: Encode

- internal citation count
- external citation count
- connectivity score
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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