

ThemeRiver: In Search of Trend and Relationships among Field

上海交通大學

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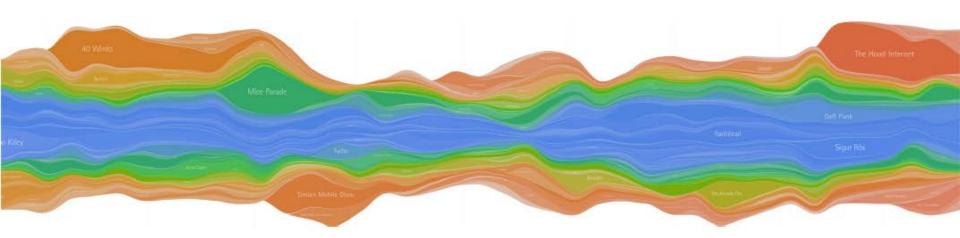


Overview



• What is ThemeRiver?

Themes or topics are represented as colored "currents" flowing within the river that narrow or widen to indicate decreases or increases in the strength of a topic at a specific point in time.





Introduction

Some examples

Timeline is explicit

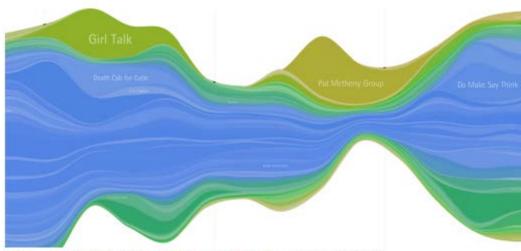


fig 1 - section from Listening History of primary author

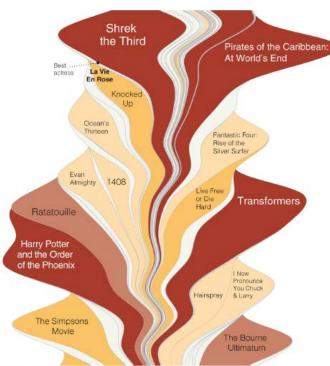
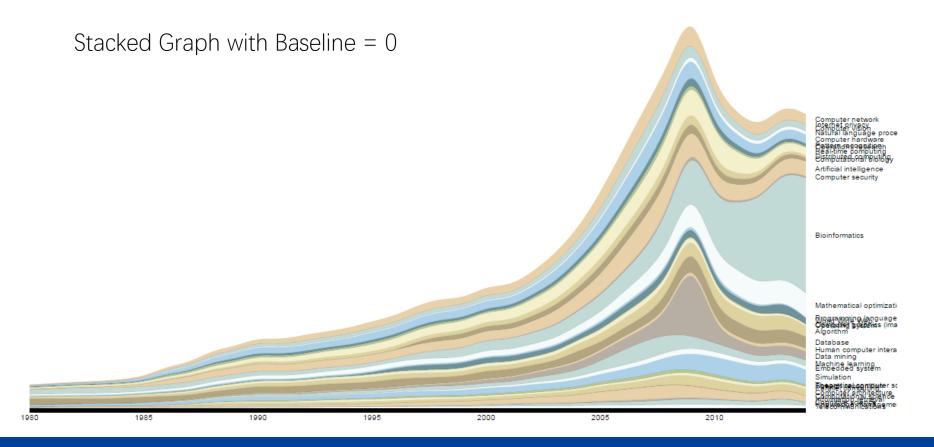


fig 2 – films from the summer of 2007



Work

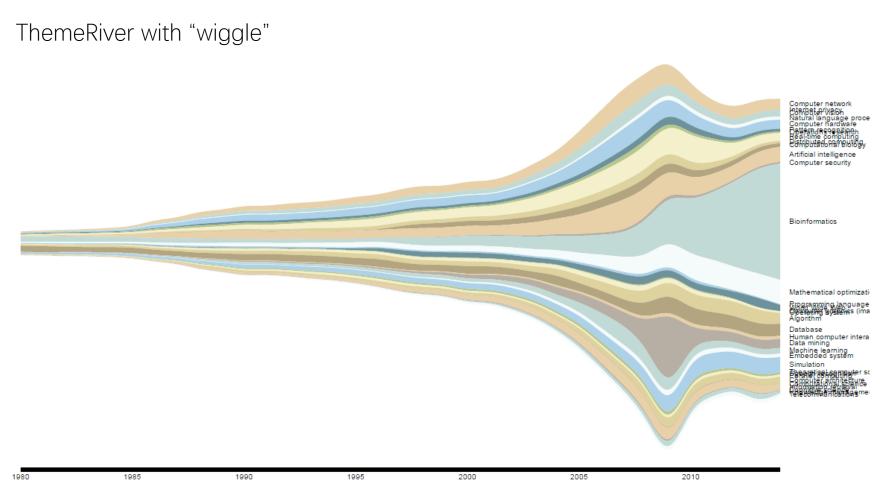
- Application on the papers of AceMap
- Demo: 34 subfields in Computer Science





Work







Work

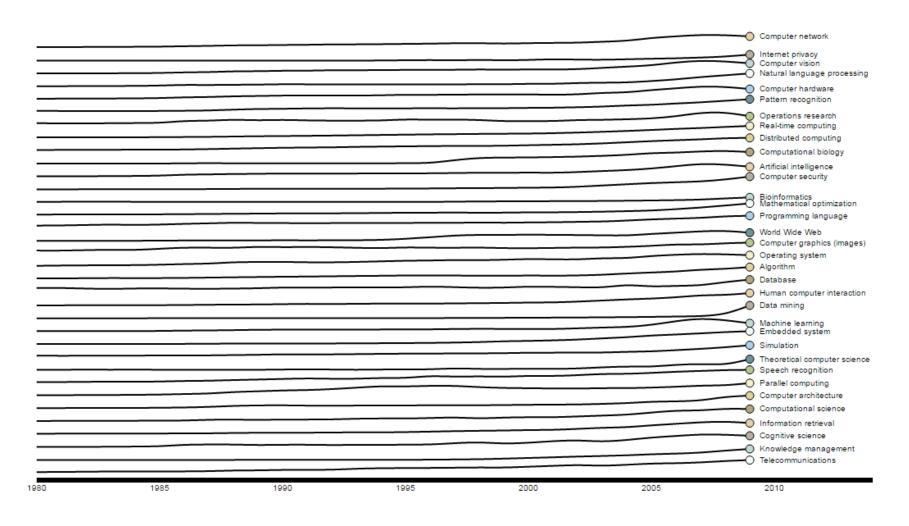


- Dynamic graph
- Eight forms of graph in smooth transition



1.Line

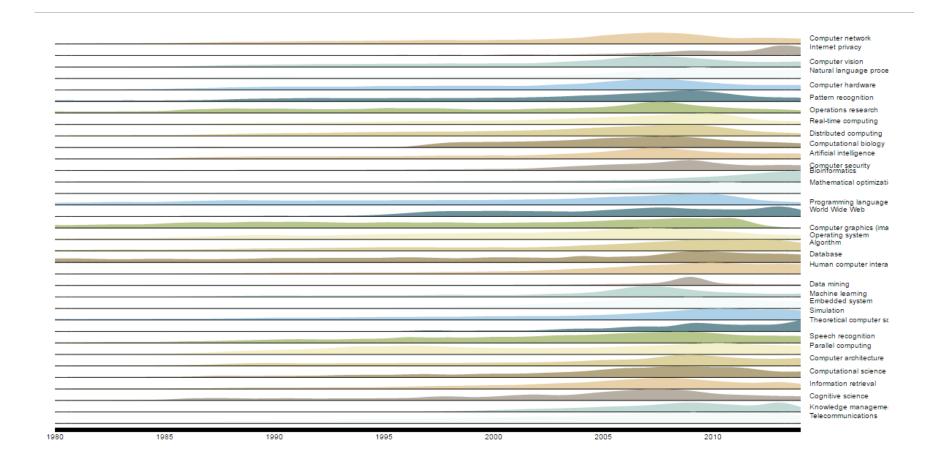






2.Area

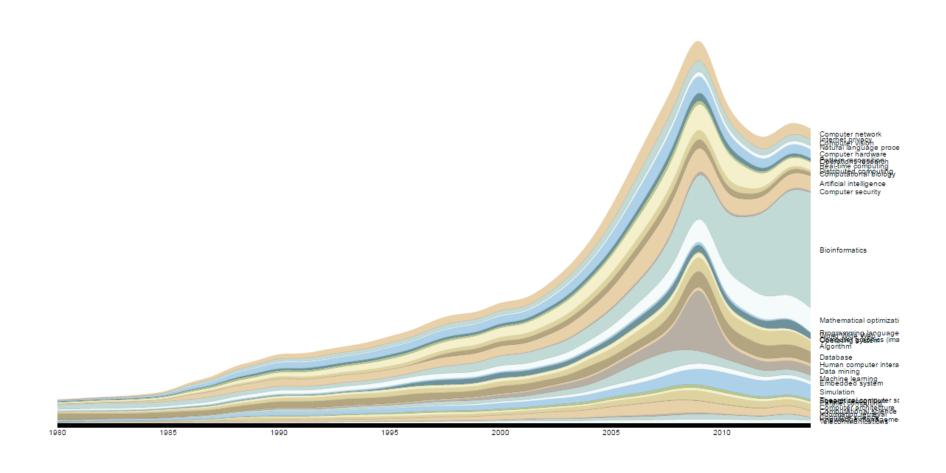






3. Stacked Graph

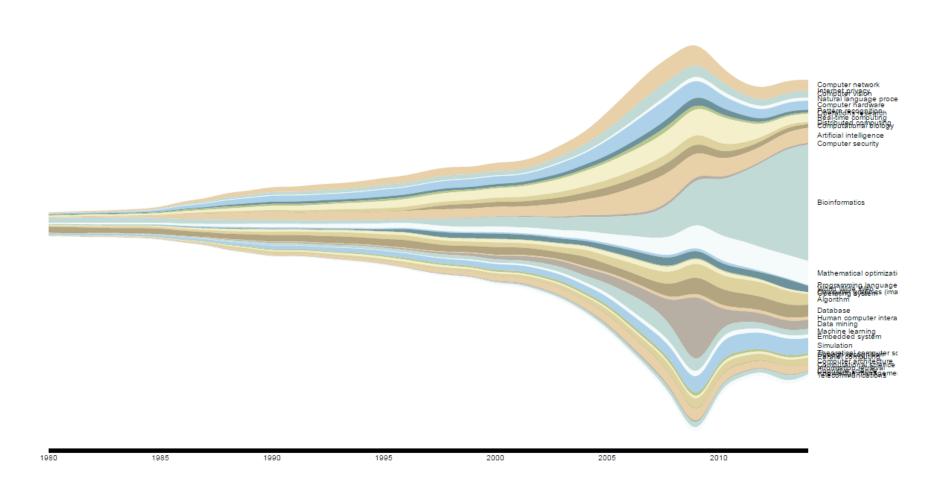






4. ThemeRiver

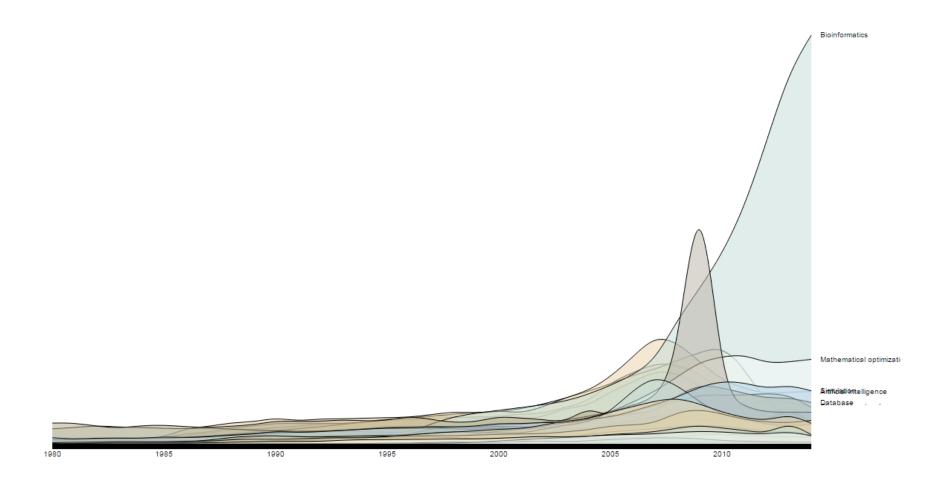






5. Overlapping Graph

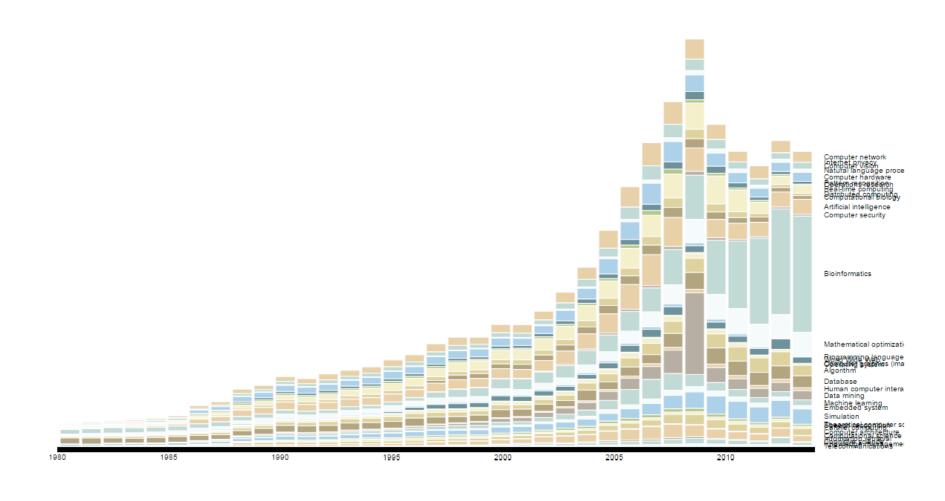






6. Stacked Bar

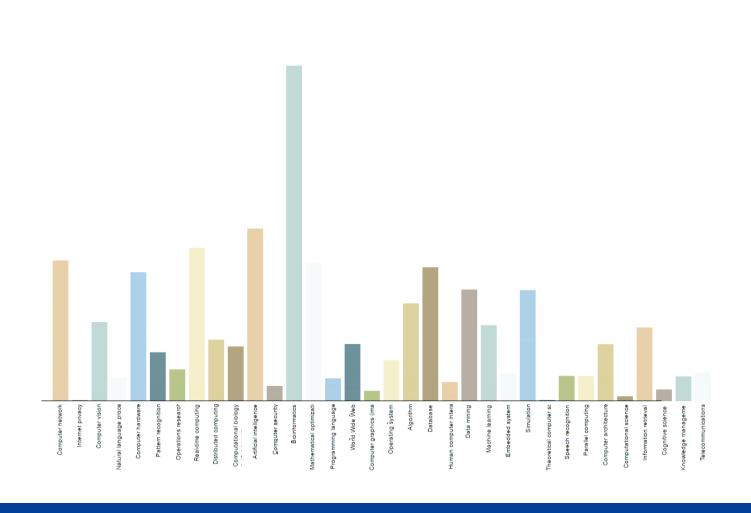






7. Traditional Bar

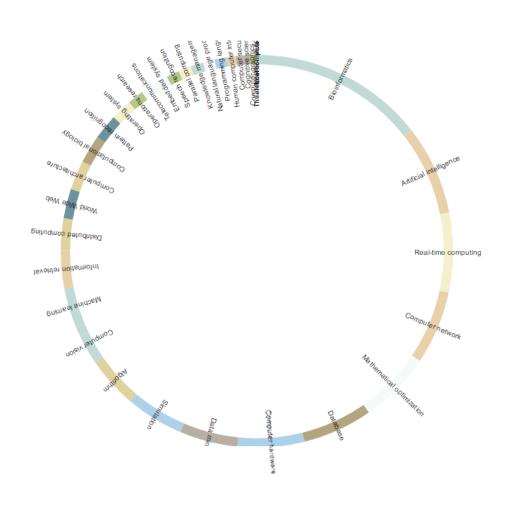






8. Dnout







Future Work

- More considerations
- Color Choice
- Layer Ordering
- Layer Labeling

- Detail Optimizing
- Overlapping of the label
- Lack of interaction

Thanks!

