

Automatic Web Content Enrichment Using Parallel Web Browsing

Method overview

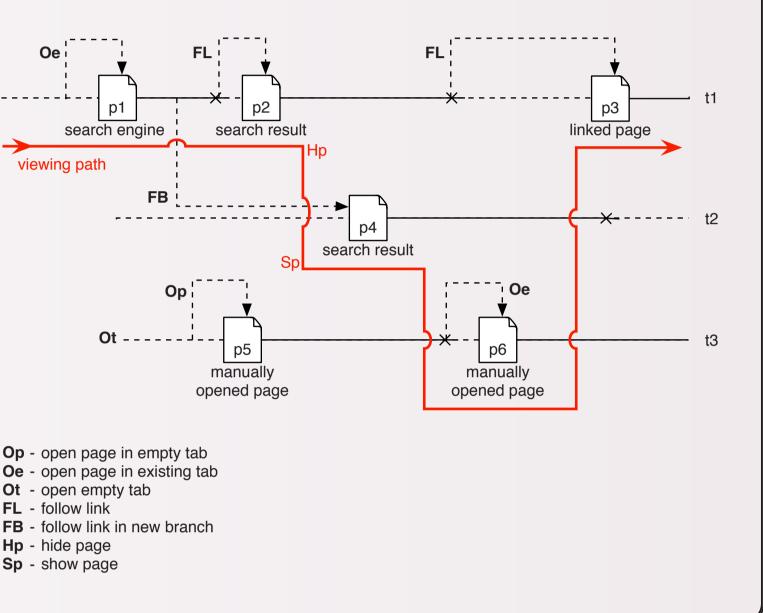
- **Parallel browsing** = browsing in tabs and interaction with web browser
- Tabs viewed as separate dimensions
- Tabs viewed for different amount of time — large tab revisitation rate
- Define user behaviour patterns
- Make rules for their identification

Exploratory search

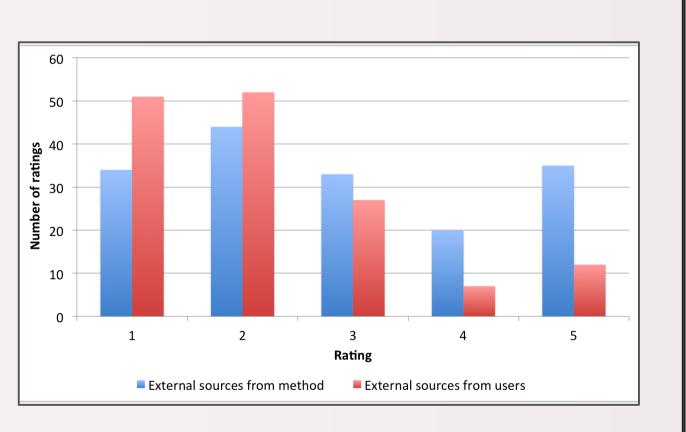
- Identify chunks (loops) in session
- Apply URL rating method based on exploratory search behaviour pattern
- Extract pairs of URLs that relate to each other assuming user bahaviour
 - FL follow link **Hp** - hide page
- Create connections between pages

- Rating of external sources in ALEF adaptive learning system
- Data collected with BRUMO browser exten-
- Method selected external sources • Average rating 2.867
- User selected external sources • Average rating 2.174
- User added external sources ratings have 13.86% better score than method picked
- Method is fully automatic, therefore no user action is required
- Blacklist or further content analysis **could** prevent worst rated external sources to appear in result and method picked external sources could score only 2.46% worse score than manualy added ones









ALEF external sources examples

Use Case Diagrams (psi-book-p-4.2)

- Basics of UML Use Case Diagrams (3.7442)
- http://creately.com/diagram-type/article/basics-uml

Data Modeling - Normalization (psi-book-p-5.1.5f)

- Logic Data Modeling 4 Normalization Example (3.5682)
- http://www.youtube.com/watch?v=pJ47btpjAhA

Introduction to UML (psi-book-p-3.5)

- The Unified Modeling Language (2.3051)
- http://www.sparxsystems.com.au/platforms/uml.html