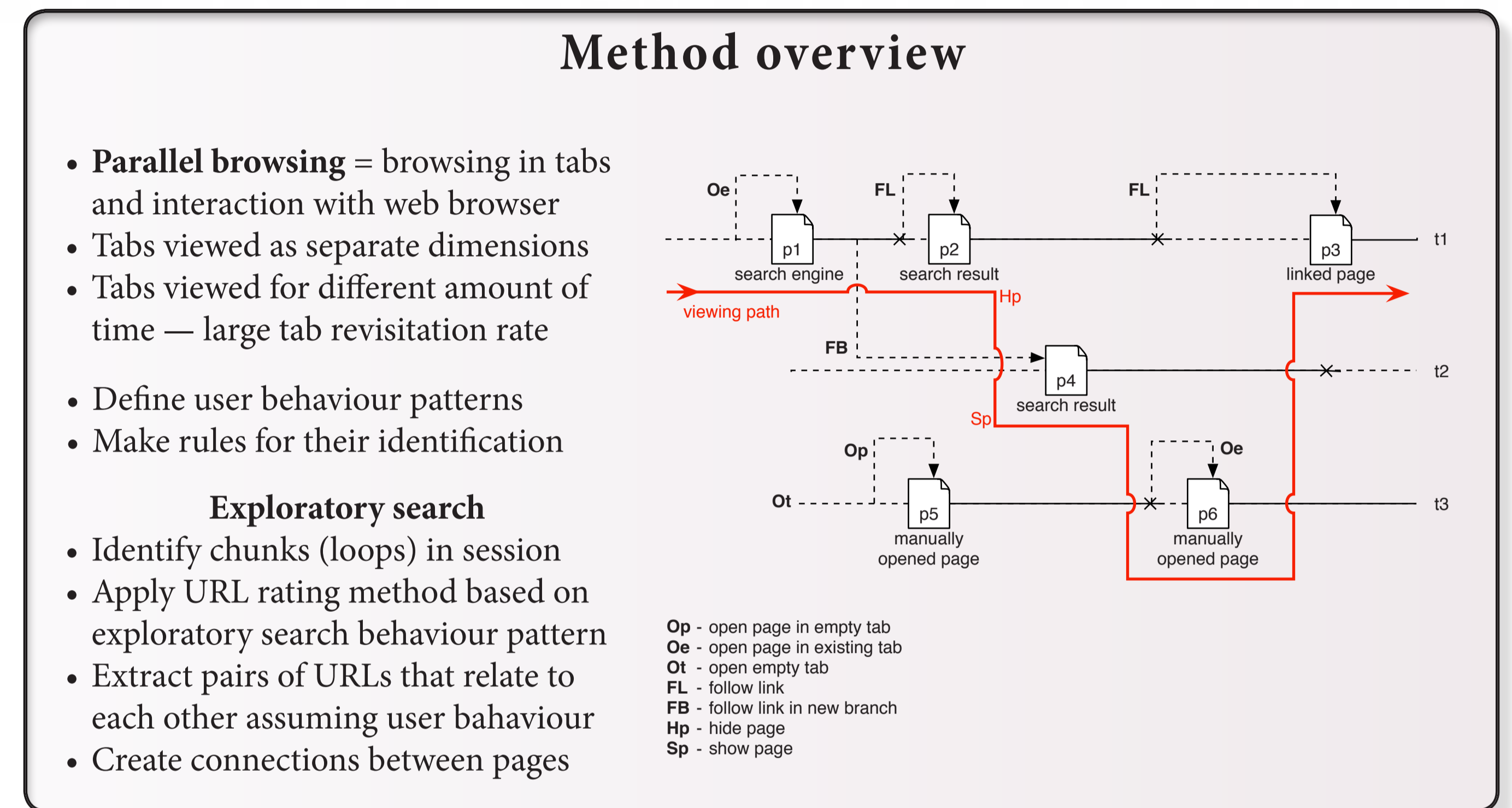
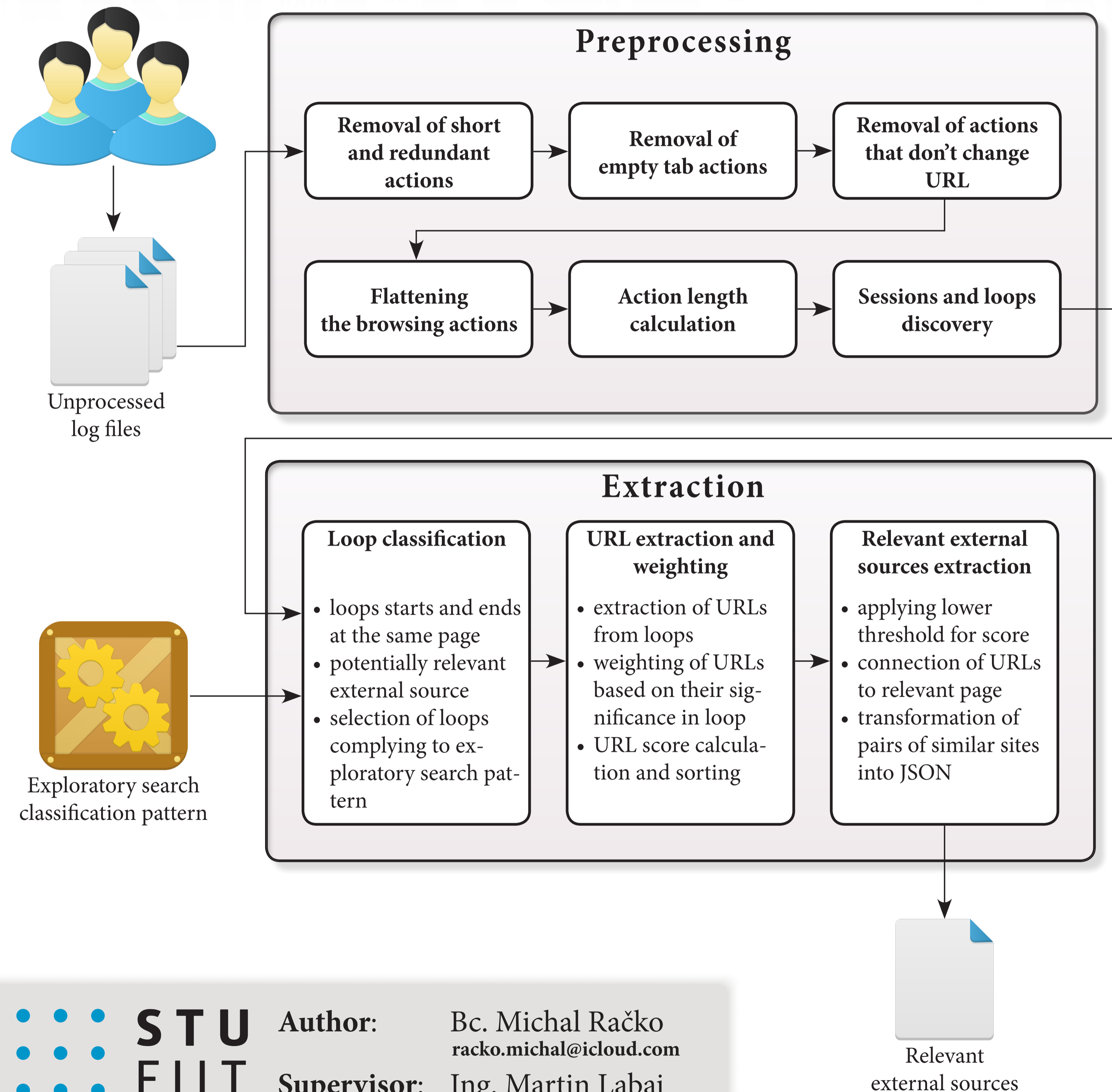


# Automatic Web Content Enrichment Using Parallel Web Browsing



### Experiment & results

- Rating of external sources in ALEF adaptive learning system
- Data collected with BRUMO browser extension
- 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 manually added ones

| Rating | External sources from method | External sources from users |
|--------|------------------------------|-----------------------------|
| 1      | 35                           | 50                          |
| 2      | 45                           | 52                          |
| 3      | 35                           | 28                          |
| 4      | 20                           | 8                           |
| 5      | 35                           | 12                          |

**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>