

Systematic support for full knowledge management lifecycle by advanced semantic annotation across information system boundaries

- Predominance of knowledge management in organizations cannot be understated.
- Socio-technological innovations have enabled interactivity and gathering of knowledge.
- Designing KMS and integrating them into increasing number of IS applications is becoming a challenging task.
- “Conventional knowledge management methods prove less effective because they often lead to KMS that do not fit user’s expectations.”



Proposed approach

- Create a web-browser based application interface for Information Systems.
 - Why?
 - Organizations use multiple different Information Systems
(often designed using different technologies)
 - Which means, integrating such systems for knowledge management can be daunting task.
 - Why annotations?
 - users are familiar with text annotations
 - Challenge!
 - Webpages are volatile and change over time.
 - Conventional anchoring approaches are useless over changing texts.
 - Solution
 - Design a novel anchoring approach that hooks into the webpage DOM, and detect anchors even after the annotated content is changed.

Semantic annotations

- Based on the SECI Model, our system would allow creation and adoption of semantic vocabularies within organizations.
- While allowing user interaction through textual and semantic annotations.
- We also show, how these advanced semantic annotation capabilities can be systematically exploited in the full knowledge-management lifecycle.

