Capturing and Maintaining Architectural Knowledge using Context Information

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AKM in LISA
Capturing and maintaining AK

- Problems
  - High effort in capturing knowledge [Lee 1997][Capilla 2008]
  - Lack of motivation [Lee 2007]
  - Cost/benefit relationship [Tang 2006]
  - Lack of time and budget [Tang 2006]
  - Difficult to capture and describe design decisions during development process [Lee 2007]
  - Difficult to embed new decisions in the existing decision tree

- Idea
  - Use context information for capturing AK

Kinds of context information

- Time
- User
- Tracing
- Textual similarity
- Working context
Different context information providers are not equally useful

Depending on application scenario

Validate with controlled setting in student projects

Very interested in potential cooperation regarding validation

Support architecture reviews of SOA-based applications
Thank you for your attention

References


