Topics

• AHAM reference model for AHSs
• Navigation support in AHSs
• Abstract views
• Link-independent navigation support (LINS)
• Generating LINS by AHAM
• Navigation by LINS
• Conclusions and future work
AHAM

Run-time Layer

Presentation Specification

Adaptation Model

Domain Model

User Model

Anchoring

Within-Component Layer

Storage Layer
Navigation support in AHSs

- Global guidance
- Local guidance
- Global orientation support
- Local orientation support
Link-dependent navigation support

- No connection for an interesting page
- Too many steps to an interesting page
- Not user preferred reading order
Abstract views

user A

view P

user B

view Q

view R

user C

view S

hyperspace
Link-independent navigation support (LINS)

- Based on an abstract view
- Independent from basic link structure
- User preferred abstract view
- Well linked
- LINS itself is adaptive
Defining abstract view by AHAM
Updating User Model

- Knowledge update
  \[
  \text{If } \text{access } P \text{ and } P.\text{ready-to-read} \\
  \text{Then } P.\text{knowledge} := \text{“known”}
  \]

- Relevance update
  \[
  \text{If } \forall P, P \text{ is prerequisite for } C \text{ and } \text{and} \\
  P.\text{knowledge} = \text{“known”} \\
  \text{Then } C.\text{relevance} := \text{“recommended”}
  \]
Generating LINS

- Global guidance based on an abstract view
- Local guidance based on an abstract view
- Global orientation support based on an abstract view
- Local orientation support based on an abstract view
Adding link adaptation

• Techniques: Color annotating
  – Green for recommended
  – Red for not-recommended
  – Yellow for not-interesting
  – Black for current page
Navigation by LINS

- Select an LINS
- Go to other related concepts (until pages)
- Get suggestion by annotated link presentation
Conclusions and future work

- Conclusions
  - Need LINS in AHS
  - AHAM can describe LINS

- Future work
  Create authoring tools to build abstract views.