Concept-Cloud Navigation in Educational Web-Based System

Our aim

Each student has different interests and knowledge so they browse different parts of curriculum. Our aim is to help the navigation on the adaptive web-based educational system ALEF by displaying of personalized keyword (concept) recommendations which represent a

Content of the cloud

Related topics

- learning object
- They serve for quick switching among similar articles

We recommend

- A personalized set of recommended concepts It recommends topics the user should deal with

Základné prvky jazyka prolog 8.2 Related topics append list join member recursion append list join member recursion ríklady. Na základe amovania formálnei We Recommend We recommend list join op output recursion list join op output recusrion resolvent Horn clause fact resolvent Horn clause fact 1 Explanations Questions Exercises **Explanations** Questions **Exercises** Arithmetics and comparison of terms Recursion Schemes of list processing Predicate member View Filter Predicate del Searching

Recommendation methods

Method based on questions and examples solutions

- Input of this method is a question or example, which was incorrectly solved
- The outputs are concepts of learning objects, which should be read over to get the required topic under the

Method based on reading of learning materials

- It is about learning materials students have already read, but have not practiced yet
- The system recommends questions and examples for the student, which are related to the read text

How does it work?

- learning object
 If we click on any concept in the tag cloud, the related learning objects are highlighted in the main menu

Relationship Selection of between concepts recommended and learning objects concepts Visited Concept Recommend LO LO 03 Concept LO Recommend Learning object space Concept space

Benefits

- Personalized content recommendation based on users' actual needs
- It reduces the duration of getting a specified
- selected topic
- Dynamic and clear filtering of content
- between content elements
- Easy to use

