Asquare: A Powerful Evaluation Tool for Adaptive Hypermedia Course System

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AHS Development Model vs Problems

Course delivering system

Students

Course definition

I don’t understand the results of data mining tools!!

User Model

Authoring Tool

Instructor

Data Mining Tools

Finding Problems with Decision Trees

Decision Tree without the Tool

The Evaluation Tool: ASquare

Symptoms of potential problems

- Related to:
  - Student behavior:
    - Group of students who left the adaptive course.
    - Group of students who left a given activity.
  - Student results:
    - Group of students who did not pass the adaptive course.
    - Group of students who failed a given practical activity.
  - Student paths:
    - Path of the students who failed a given practical activity.
    - Path of the students who repeated many times a given activity.
- ...

Testing the Evaluation Tool

Simulog

ST = DS?

ST: Symptoms to be tested

UM

DS: Detected Symptoms

Course Definition

Ontology of anomalies

Hypertext 08 – Pittsburgh