



Validating the Evaluation of Adaptive Systems by User Profile Simulation

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Motivation

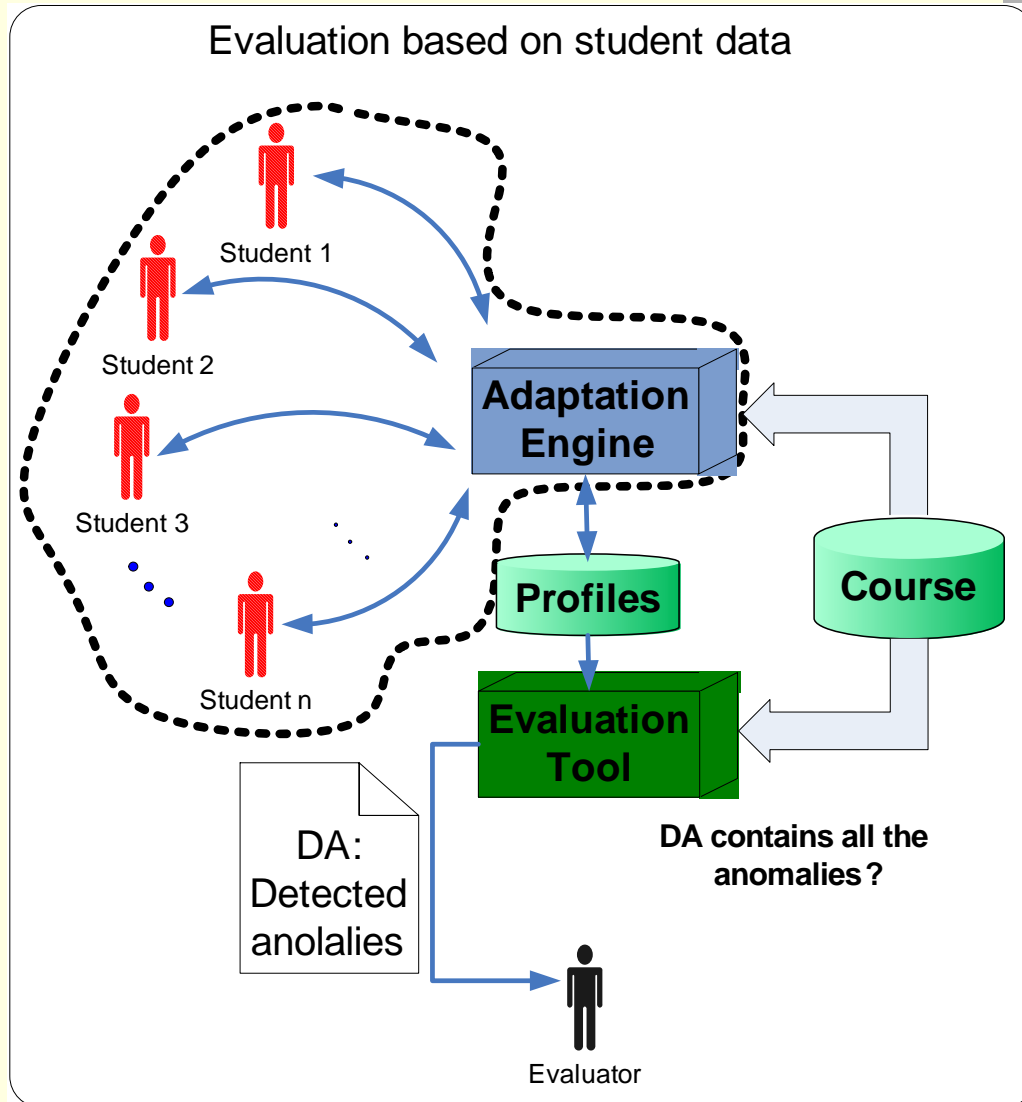
- Evaluation of AHS is a difficult task.
- Log analysis tools can be used to support (semi) automatic evaluation of AHS.
 - Look for anomalous behavioral patterns that may point to problems on the adaptation rules.
- Requirement: these tools should also be validated!
 - The validation process itself is a difficult task
 - A large set of student logs is needed to test the evaluation tool.



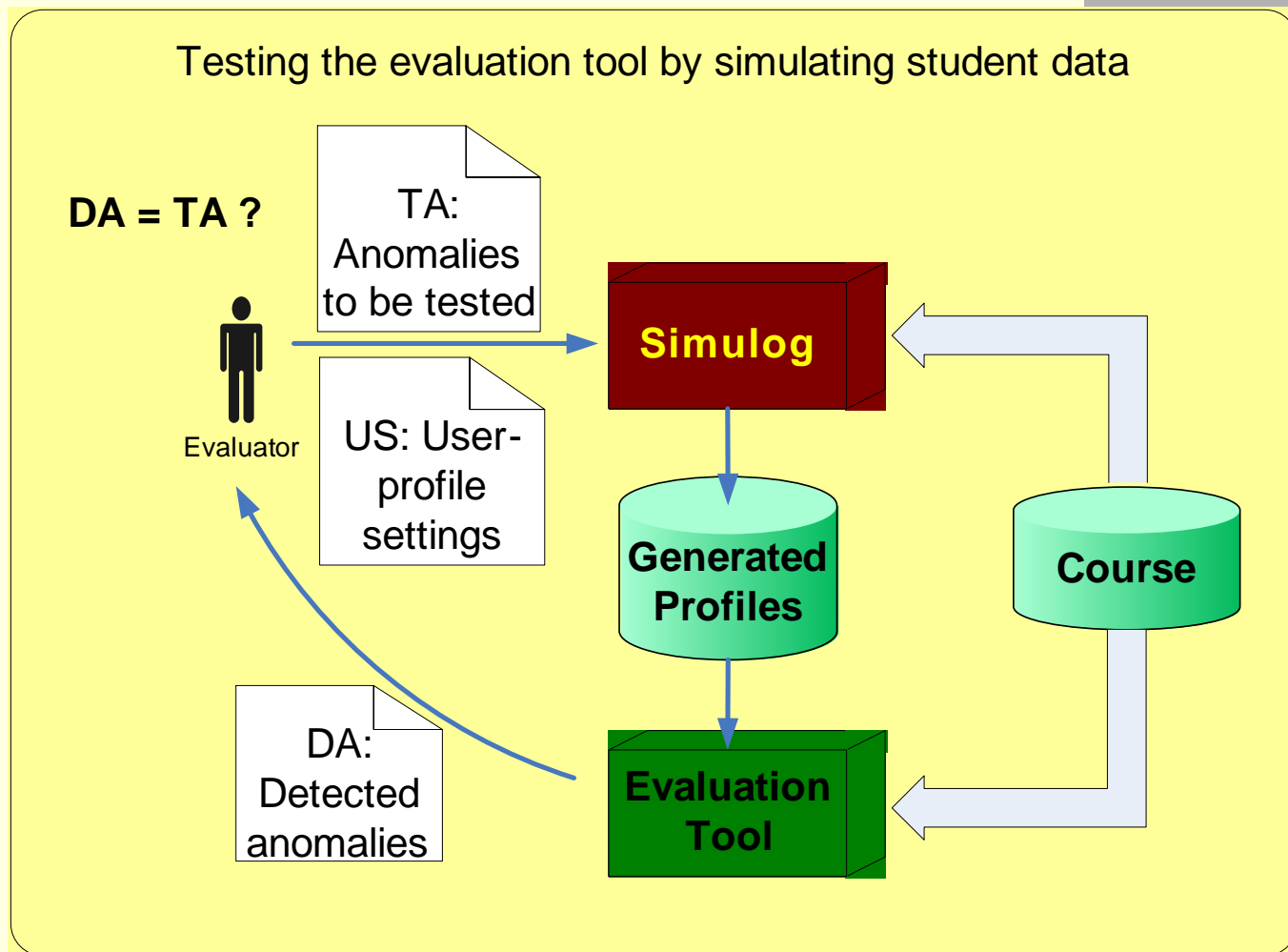
Main Goals

- Evaluation tools integrated into the AHS architecture.
- Provide to the course designer a tool to test if the evaluation works correctly: all anomalous patterns are detected
 - Use simulation techniques to test the tool.
 - Classify the anomalies.

Evaluation Based of Student Data



Approach of Validating the Evaluation



Conclusions and Future Work

- This approach propose a practical way to test an evaluation tool based on log analysis.
- Future work includes:
 - Testing SIMULOG with real designers
 - It is the ontology complete enough?
 - Checking SIMULOG results against real user logs
 - Creating an ontology for adaptive course description.

Thank you

- If you have any questions, I will be next to the poster.

