Advise-Me
Plans for the future

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Multiplier Event
October 19, 2018
Heerlen
Introduction

Timeline: September 2016 – August 2019 (1 year remaining)

- Slightly behind schedule with implementation (software development and modeling), but we can catch up
- I will present our plans for the future

Please Advise Us about how we should proceed:

1. Connecting learning environments
2. Dashboard and adaptive testing paths
3. Evaluation studies
4. Scientific output
5. Second multiplier event
6. Dissemination opportunities
Connecting learning environments

The project plan emphasizes reuse of the assessment technology by connecting multiple learning environments:

- The **assessment services** should facilitate easy integration
- **Numworx** (a.k.a. the Digital Mathematics Environment) is connected to the assessment software, and was used in the pilot studies

Future plans:
- Connect the French Pepite system (on a WIMS server)
- Improve interoperability by adding support for QTI standard
Dashboard and adaptive testing paths

Not discussed today (but work in progress):

- A dashboard/reporting module that presents the assessment
  - Reporting about groups and individuals
  - Targeted at teachers and pupils
  - Will be inspired by similar dashboards in the DME and Pepite

- We want to make testing paths adaptive
  - Task sequencing: order and selection of tasks depends on answers
  - Selection based on ‘unknowns’ in user model
Evaluation studies

- Main activity in third year: design and execute a larger evaluation study
  - We aim at approximately 300 pupils
  - Three countries
  - Preferably, involving different learning environments
- Evaluation from a technical and a quality perspective
Scientific output

The main project results so far are described in our EC-TEL 2018 paper

- Comments about the paper?
- Recommendations for follow-up research?
- Related work we missed?
- Other ideas?

We are planning to write a second paper after the evaluation studies
Second multiplier event

- Workshop about final project results (including evaluation)
- Summer 2019, exact date to be decided
- OUNL campus, Heerlen, the Netherlands, or co-located with a related conference
- Similar to today’s event, but perhaps somewhat less technical

You are cordially invited to also attend this workshop
Dissemination opportunities

- Advise-Me is a Strategic Partnership in the Erasmus+ programme
  - International collaboration
  - Multi-disciplinary (Computer Science, Math Education, Psychometrics)
  - Research and applied technology

- Do you see opportunities for future collaboration?
Advise-Me

Automatic Diagnostics with Intermediate Steps in Mathematics Education

Project details:
- Start: September 1, 2016
- End: August 31, 2019
- Duration: 36 months
- Funding: € 442,895
- Programme: Erasmus+
- Action: Strategic Partnerships
- 2016-1-NL01-KA201-023022

Partners:
- Open University of the Netherlands (coordinator)
- Utrecht University
- Cito
- Saarland University
- Université Paris-Est Créteil

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Advise-Me

On Friday October 19, 2018, we are organising a multiplier event in Heerlen, the Netherlands. On this day, we will give an overview of the results of the project, and have asked two international experts to give their view on assessment in mathematics. You are very welcome to attend (registration is required).

Our research paper Fine-grained Cognitive Assessment based on Free-form Input for Math Story Problems was accepted for the European Conference on Technology Enhanced Learning (EC-TEL) 2018.

Interested?
Feel free to contact the project coordinator, dr. Bastiaan Heeren, about the Advise-Me project.