Adaptive sequencing and course generation
What is *Adaptive sequencing and course generation*?
“Course generation enables the automatic assembly of the course (ware) adapted to the learner’s competencies and learning goals.”

Carsten Ullrich, Erica Melis (2009)

journal homepage: www.elsevier.com/locate/eswa
PAIGOS

a course generator able to generate courses adapted to different learning goals based on an explicit representation of pedagogical knowledge.
How does it work???
The generated courses are structured according to **pedagogical principles** and **contain bridging texts that describe the purpose of the sections**. Together, these two features provide the student with information that may **help him to understand** why a course is structured in a specific way.

PAIGOS is used for supporting mathematics learning in reality, performance matters.
What is so special about Adaptive systems?
“Personalization can take several forms. We can have learners ‘test out’ of content that they already know, and only see content that’s new or needs to be refreshed. Thus, we have a model of a learner’s specific knowledge and gaps.”

Clark Quinn, Ph.D  (Apr 19, 2018)
Selecting exercises and examples

Implementing the pedagogical knowledge of selecting exercises that are “appropriate” for the learner. The meaning of “appropriate” differs depending on the individual learner. For instance, if he is highly motivated then a slightly more difficult exercise might be selected. The most relevant factors are the educational level of the learner and his competency level.

Carsten Ullrich, Erica Melis (2009)
The rationale is that *it is better to present an exercise with a too low competency level* than one of a different learning context since resources from a *different learning context might be harder to understand than “easier” exercises.*

Carsten Ullrich, Erica Melis (2009)
Does it effect students only?

https://youtu.be/k4bDyiPEZz0
Is Adaptive sequencing and course generation so great?

Why are we not using it in all educational institutions?
“Among the many areas drawing interest of late is that of adaptive learning. Enabled by technology advances, we can now begin to change learning on the fly. This can be a good thing, but it can also be used poorly, and can be a source of unnecessary confusion.” (Apr 19, 2018)

Clark Quinn, Ph.D., Dr. Quinn has served as an executive in online and e-learning initiatives and has an international reputation as a consultant, speaker, and author, with five books and numerous articles and chapters. Clark works through Quinnovation.com, and was awarded the eLearning Guild’s Guild Master award in 2012.
My personal Opinion
Any questions ??????