

AI in high education environments

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What AI Is Able to Do Now (Yet not to a large scale!)

EDUCATION PROBLEM

1. Individual needs vs. standardized curriculum
2. Limited tutor time
3. Grading and admin tasks are time-consuming
4. Non-answered questions & communication
5. Adaptation to the digital era
6. Plagiarism vs. authorship
7. High drop rates in HE and MOOCs

AI SOLUTION

1. Personalized learning
2. Personal virtual tutors
3. Automated assesment
4. Virtual assistants & chatbots
5. Digitatized textbooks & interfaces
6. Natural language processing
7. Sentiment analysis

Challenges

TECHNICAL

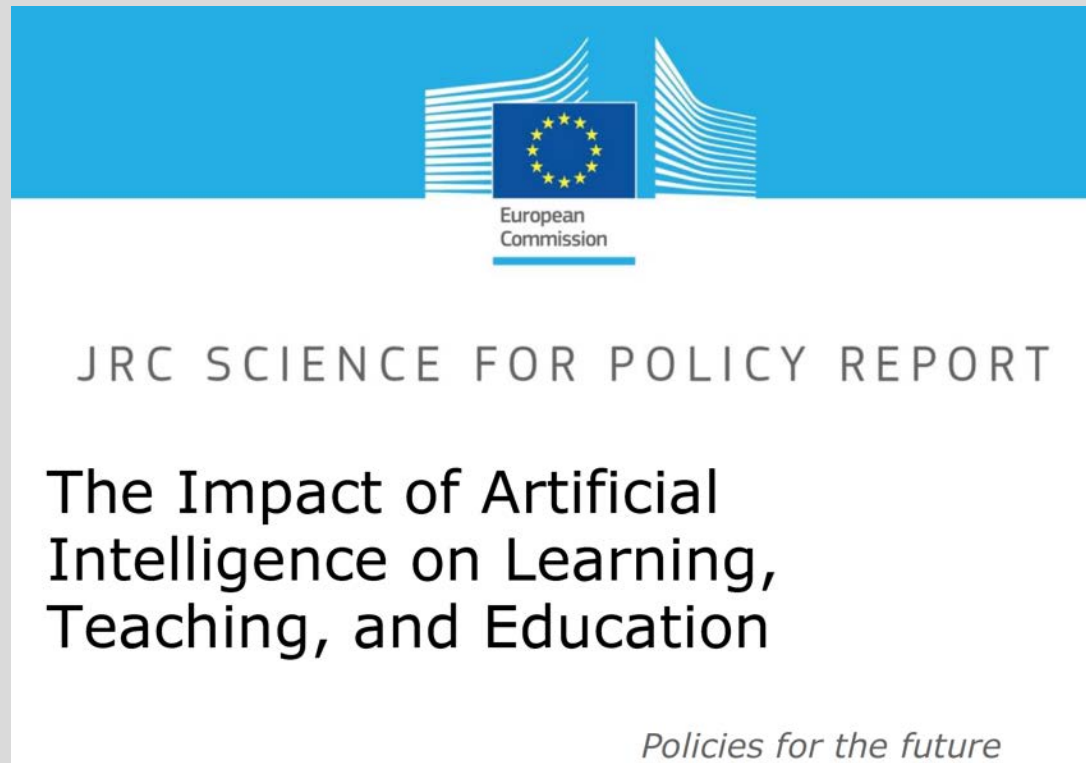
1. AI-Human interface
2. Avoid the current limitations to certain tasks
3. Avoid software malfunction
4. Enhance the features supporting new experiences
5. Virtual lecturers reacting like humans
6. Large scale deployment of learning environments

NON-TECHNICAL

1. Investment
2. Building trust in AI support
3. High expectations
4. Change the role of teachers
5. Change the way of learning
6. Connect the academic world

„AI in the education industry will grow by 47.5% through 2021” (AI Market report in US 2017-2021)

How We Should Proceed?



Doi: 10.2760/12297, 2018

Australian-European Collaborations

1. Building trust & redefining the role of teachers & best practices e.g. via ERASMUS+
2. Solving technical issues in Horizon-Europe grants & defragmentation of RDI
3. Enhance the presence in international AI-related forums