



Univerza v Mariboru

Filozofska fakulteta



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

Shadow of Covid 19 – the AI in the education

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The impact of pandemic years to informatics education: review and next steps

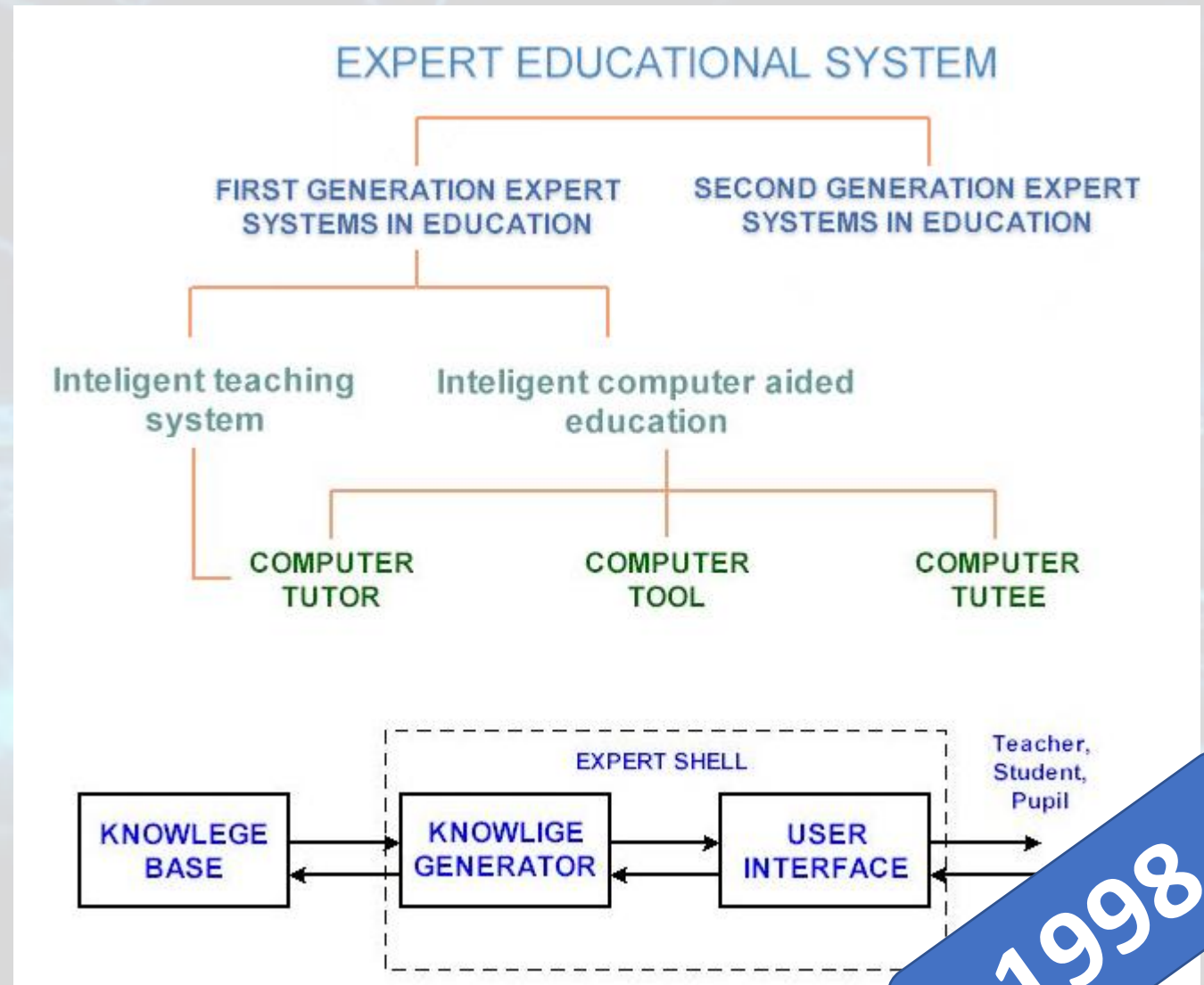
Covid 19: Implication in education

- Necessary perturbation of stale principles
- Huge increased ICT skills
- The Good, the Bad and the Ugly
 - *Good: It is feasible, it can be done, we did it.*
 - *Bad: Technical, organizational, and mental problems*
 - *Ugly: Implication to the interpersonal (&family) relations*
- Huge amount of verified e-learning materials
- Retention of the good practices (?)



AI in education (1)

- History
- Not the new concept
- Not feasible before
- Knowledge bases (?)
 - If clauses (+fuzzy logic)
 - *Medical expert systems*



<https://bali.ff.um.si/model/eng/s12.html> [SIC]

1998

AI in education (2)

- Neural networks
- Big data (verified) \leq (COVID 19)
- November 2022 (ChatGPT)
 - Data till september 2021
- Potential in education
 - Students with special needs

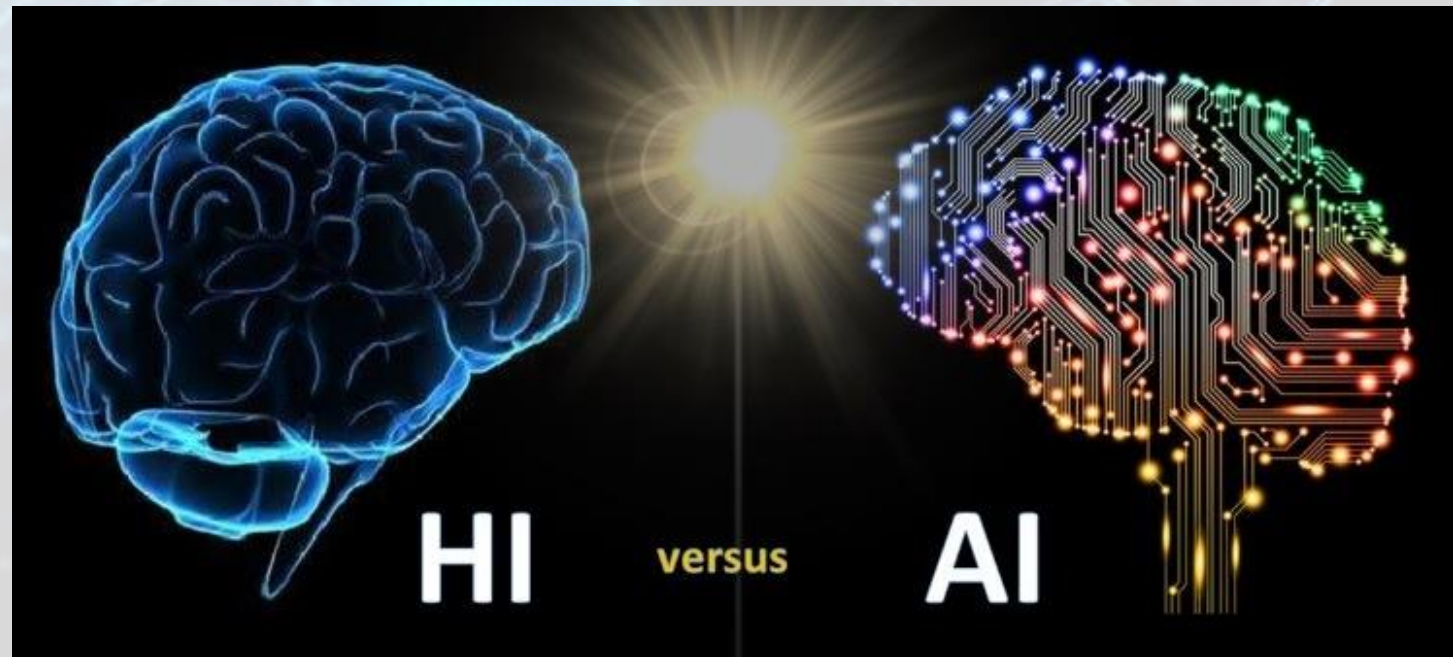


AI in education (3)

- Can AI change the learning? => **No**; you cannot upload the human brains
- Can AI change segments of education? => **Yes**; written assignments
- Can AI ease the process of education? => **Yes**; if used correctly
 - Additional explanations, translation between languages, NLP, selection of additional literature, encourage the inquisitiveness.
- Will AI ease the process of education? => **Most probably not.**
 - Analogy with WWW

Application of AI in education

- Teach the teachers!
- Each discipline needs to find its way
- Use of higher cognitive levels of education (research learning and critical evaluation)



BENEFITS and drawbacks of AI in education

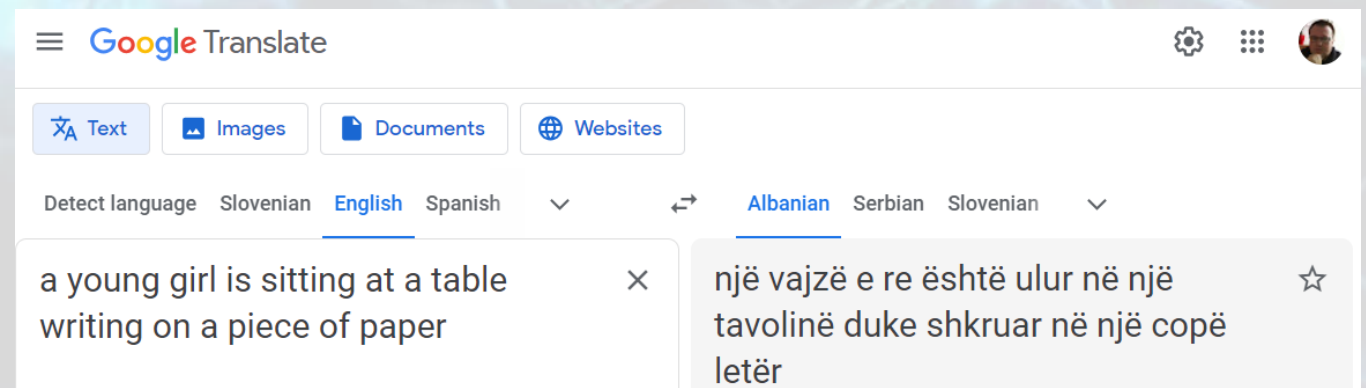
- Special needs students
 - Readers and explanation of learning materials (sight impaired students)
 - Automatic subtitling of video (hear impaired students)
 - Voice communications (dyslectics students)
- Translation between languages



a young girl sitting at a table writing on a piece of paper



https://www.youtube.com/watch?v=hJP5GqnTrNo&ab_channel=TED

A screenshot of the Google Translate web interface. The top bar shows the Google Translate logo and navigation icons. Below the logo are tabs for "Text", "Images", "Documents", and "Websites". The "Text" tab is selected. The interface shows the source language as "English" and the target language as "Albanian". The input text is "a young girl is sitting at a table writing on a piece of paper" and the output text is "një vajzë e re është ulur në një tavolinë duke shkruar në një copë letër". data-bbox="427 677 960 946"/>

<https://www.practicalecommerce.com/6-image-to-text-tools-ai-powered>

Benefits and DRAWBACKS of AI in education

- Formative assessment
- Teachers cannot ignore AI
- Time delay for proof of using AI in the student's assignments
- We cannot evaluate the AI in (virtual worlds, robotics ...)

Cannot replace the teachers



According to **Bill Gates**, the famous co-founder of **Microsoft Corp.**, artificial intelligence (AI) is set to become the teacher's pet, revolutionizing the way young learners develop reading and writing skills.

How to use AI in education?

Good practice is a starting point ...

... but ...

... follow the stream and learn on your way!

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SETCOM - Supportive Environments to Enhance Transversal Competencies in Education

[SETCOM - Pedagoška Fakulteta UM](#)