

Open Educational Resources and (Generative) Artificial Intelligence: Potentials and Challenges

KI-NEL-23-NRW
WIRD ORGANISIERT VON:



KI-NEL-23-NRW
WIRD UMGESATZT VON:



KI-NEL-23 IST EIN
GEMEINSAMES PROJEKT VON:



GEFÖRDERT DURCH:



Agenda

- About the Project „KI-NEL-23-NRW“
- Chatfall: Your ideas on Artificial Intelligence and OER
- Potentials of AI for OER
- Challenges

- Discussion

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OER und KI.



Dr. Robert Schuwer
OER-Forscher

“
Generative künstliche
Intelligenz kann für offene
Lernmaterialien **große**
Vorteile eröffnen.”

“

Wir freuen uns sehr,
für NRW an einem so
relevanten Projekt
mitzuwirken.

PD Dr. Markus Deimann
Geschäftsführer ORCA.nrw



About the project „KI-NEL-23-NRW“



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Chatfall: Associations on Artificial Intelligence and OER

What are your first thoughts when you hear OER and Artificial Intelligence?

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Potentials

Retain: make, own, and control a copy of the resource

Revise: edit, adapt, and modify your copy of the resource

Remix: combine your original or revised copy of the resource with other existing material to create something new

Reuse: use your original, revised, or remixed copy of the resource publicly

Redistribute: share copies of your original, revised, or remixed copy of the resource with others

Potentials – searching and finding OER

- Brainstorming
 - finding categories: what am I actually looking for?
 - finding inspirations
 - defining potential subject areas
- Searching OER materials in different repositories (OERSI) and beyond (Google ect.)
- Improved search
 - ...through better alignment with teaching/learning objectives
 - ...through automated keywording/metadata generation/creation of detailed information and descriptions of a resources
 - ...through automatically screening full texts during searches

Potentials – searching and finding OER

- Recommendations for similar content/References to related topics
- Recommendations on possible methods
- Automated creation of collections
- Classification of OER materials based on user feedback, download rates, ratings

Potentials – creating OER

- Brainstorming
 - drafts for first structure and design
 - Getting background information and statistics on a subject
 - Evaluating relevant information when creating materials and tasks
- AI-supported creation of open materials
 - Creating materials: images, graphics, glossaries, quizzes for self-assessment, audio/video, test questions (examination) tasks, syllabi, tutorials, prefabricated layouts/samples that are OER-compatible
 - Automated remixings-tools
 - Summarising offers from various OER portals and condensing them
- Mapping of remixable materials

Potentials – revising OER

- Adaptation of existing materials
 - ...to own needs/own examples
 - ...to learners (individualisation and differentiation (age, target groups, performance, preferences etc.)
 - Linguistic revision & correction of errors
 - Shortening, translating and simplifying (easy language)
 - Integrating local examples to overcome cultural barriers

Potentials – OEP

- Students chatting with chatbots about a course
 - Chatbot fed from scripts/videos
 - answering questions on a subject area
- Individualisation of learning paths, supporting adaptive learning / automated feedback
- AI-supported assistant that gives overviews of support material
- facilitating collaborative learning and creation of OER
- Summative and formative feedback for students

Potentials – Examples from the field: The TranscriptOER

https://www.isd.kit.edu/td-projekte_TranscriptOER.php



Potentials – Examples from the field: H5P

<https://h5p.org/using-ai-to-create-h5p-content>



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Challenges

- Copyright issues
- Ethical Concerns
- Quality control
 - hallucinations
- EDI (Equality, Diversity, Inclusivity) under pressure
 - Language
 - Bias
- Too much power for Big Tech

Schuwer, R. (2023). Generative künstliche Intelligenz und offene Lernmaterialien: Segen oder großes Risiko?
<https://robertschuwer.nl/download/slides/20231212/orca->

Discussion

- What do you think of AI and OER?
- Do you see other potentials or challenges connected to the use of AI for OER?
- Do you know any examples from the field?
- Do you have own experiences using AI for OER or OEP?

Further Information

https://oer-ki.orca.nrw/?page_id=68

- Short videos (Schuwer 2024 = Folge 5; video in english)
- Literature
- Links



Colophon

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