Using Gen-AI for OER: Challenges & Risks

Robert Schuwer

Potential risks

- Copyright issues

(Miao & Holmes, 2023; Atenas, 2024)

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- Quality Control

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- Copyright issues
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- **Ethical concerns**

(Miao & Holmes, 2023; Atenas, 2024)

Potential risks

- Copyright issues

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- Ethical concerns

- EDI (Equality, Diversity, Inclusivity) principles under pressure
    - Language
    - Bias

(Miao & Holmes, 2023; Atenas, 2024)

Potential risks

- Copyright issues
- Quality Control
- Ethical concerns
- EDI (Equality, Diversity, Inclusivity) principles under pressure
    - Language
    - Bias
- **Too much power for Big Tech**

(Miao & Holmes, 2023; Atenas, 2024)

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How to overcome?

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- Human Oversight

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- Diversity in Data
  - GPT-NL (https://www.tno.nl/en/digital/digital-innovations/data-sharing/conversational-ai/gpt-nl-boosts-dutch-ai-autonomy/)

How to overcome?

- Human Oversight

- Diversity in Data

- Teacher Training and Support

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- Accessible Design

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- Ethical Guidelines

Guidelines for responsible use of (Gen-)AI

- UNESCO

- EU AI-act and Ethical Guidelines

- Governments
  - E.g. The Netherlands

- Institutions

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Seven principles of Creative Commons

1. Legal space for studying and creating should accommodate generative AI while addressing societal concerns.

2. Defining ways for creators to express preferences on AI training, with opting out as the maximum legislative restriction, due to extensive copyright protection and lack of active management.

3. Collaborative efforts needed to address implications beyond copyright, considering rights like data protection and likeness use.

4. Special focus on using traditional knowledge for AI training, involving community stewardship for authorization.

5. Legal frameworks should permit using copyrighted works for non-commercial public interest, like research and education.

6. Ensure shared economic benefits from AI access to copyrighted works, benefiting all contributors to the commons.

7. Counter resource concentration by investing in public computational infrastructures globally and supporting training datasets respecting outlined principles as commons.

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Guidelines for responsible use of (Gen-)AI

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- EU AI-act

- Governments
  - E.g. The Netherlands

- Institutions

- Professionalisation programs!

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Colophon

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References

Used in this presentation and for further reading

Atenas, J. (January 2024). *Ethical Development of AI-Enabled Open Educational Resources (OER*) [PowerPoint Slides]. School of Social Sciences and Humanities, University of Suffolk. https://www.researchgate.net/publication/377625931

Bozkurt, A. (2023). Generative AI, synthetic contents, open educational resources (OER), and open educational practices (OEP): A new front in the openness landscape. *Open Praxis, 15*(3), 178-184. https://doi.org/10.55982/openpraxis.15.3.579

Creative Commons (7 October 2023). Making AI work for creators and the commons. *Creative Commons.* https://creativecommons.org/2023/10/07/making-ai-work-for-creators-and-the-commons/

De la Higuera, C., & Iyer, J. (2024). *AI for Teachers: an Open Textbook.* Pressbooks. https://pressbooks.pub/aiforteachers/

European Education Area. (2022, October 25). *Ethical guidelines on the use of artificial intelligence and data in teaching and learning for educators*. https://education.ec.europa.eu/news/ethical-guidelines-on-the-use-of-artificial-intelligence-and-data-in-teaching-and-learning-for-educators

European Union. (2023, December 19). *EU AI act: First regulation on artificial intelligence | News | European Parliament*. https://www.europarl.europa.eu/news/en/headlines/society/20230601STO93804/eu-ai-act-first-regulation-on-artificial-intelligence

Miao, F., & Holmes, W. (2023). *Guidance for generative AI in education and research*. UNESCO, Paris. https://unesdoc.unesco.org/ark:/48223/pf0000386693

Nerantzi, C., Abegglen, S., Karatsiori, M. & Martínez-Arboleda, A. (Eds.). (2023). 101 creative ideas to use AI in education, A crowdsourced collection (2023 1.2) [Computer software]. Zenodo. https://doi.org/10.5281/zenodo.8355454

Niemi, H., Pea, R. D., & Lu, Y. (2022). *AI in learning: Designing the future*. Springer Nature. https://doi.org/10.1007/978-3-031-09687-7

Rijksoverheid. (2024, January 18). *Kabinet presenteert visie op generatieve AI*. Informatie van de Rijksoverheid | Rijksoverheid.nl. https://www.rijksoverheid.nl/actueel/nieuws/2024/01/18/kabinet-presenteert-visie-op-generatieve-ai

UNESCO (2019). *Recommendation on Open Educational Resources (OER) (CL/4319).* https://unesdoc.unesco.org/ark:/48223/pf0000373755

UNESCO (4 December 2023). AI competency frameworks for school students and teachers. *UNESCO*. https://www.unesco.org/en/digital-education/ai-future-learning/competency-frameworks

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