



Al and academic publishing

Anita de Waard VP Research Collaborations, Elsevier

Webinar Academia Europaea May 13, 2024



The Use of Generative AI in Publishing:



Some Key Concerns:

Inaccurate information, unreliable sources:

- Not trained on scientific content
- Not up to date
- Homogeneous content

Ethical concerns and biases:

- Fake papers!
- Promoted/shared for wrong reasons
- Bias towards content, authors, editors

Environmental impact

Some Key Opportunities:

Improve quality and creativity in scholarship:

- -- Allow better links to data, software, workflows
- -- Speed up and streamline writing, reviewing, editing
- -- Enable connections between disparate topics

Improve public trust in science:

- -- Enable tracing of claims: "Ask for Evidence!"
- -- Supporting researchers in communication
- -- Enabling explanation of any concept, equation

Improve equity and inclusion:

- -- Identify and combat sources of bias
- -- Enable access to broader range of communities
- -- Enable translation into other languages, styles

What Are We Doing to Address These Concerns?



RELX Responsible AI Principles

AS PART OF OUR RESPONSIBLE AI APPROACH...



1. We consider the real-world impact of our solutions on people



2. We take action to prevent the creation or reinforcement of unfair bias



3. We can explain how our solutions work



4. We create accountability through human oversight



5. We respect privacy and champion robust data governance

Working with the AI community to find fake papers



DAGPAP24: DETECTING AUTOMATICALLY GENERATED SCIENTIFIC PAPERS (ACL 2024)



Guidance for Authors, Editors and Reviewers:

Elsevier's Al author policy states that *authors* are allowed to use generative Al and Al-assisted technologies in the writing process before submission, but only to improve the language and readability of their paper and with the appropriate disclosure, as per our instructions in Elsevier's Guide for Authors.

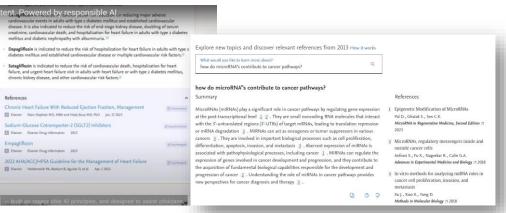
Generative AI or AI-assisted technologies should not be used by editors to assist in the evaluation or decision-making process of a manuscript as the critical thinking and original assessment needed for this work is outside of the scope of this technology and there is a risk that the technology will generate incorrect, incomplete or biased conclusions about the manuscript.

Elsevier owns identity protected Al-assisted technologies which conform to the <u>RELX Responsible Al Principles</u>, such as those used during the screening process to conduct completeness and plagiarism checks and identify suitable reviewers.

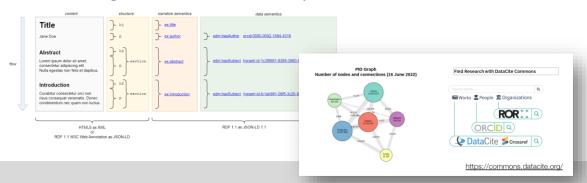
Some Exciting Opportunities



Scopus AI, Clinical Key AI, Science Direct AI....



Working with/for research to help invent the future:



Applying AI to thorny issues such as:

- Improving detection of plagiarism and falsified images
- Improving the quality of content (experimental descriptions, protocols, units of measure...)
- Supporting the draft of Policy Briefs

