ACADEMIC PUBLISHER GUIDELINES ON AI USAGE: A CHATGPT SUPPORTED THEMATIC ANALYSIS

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AIA

Dr Mike Perkins
A little about me…

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Dr Mike Perkins
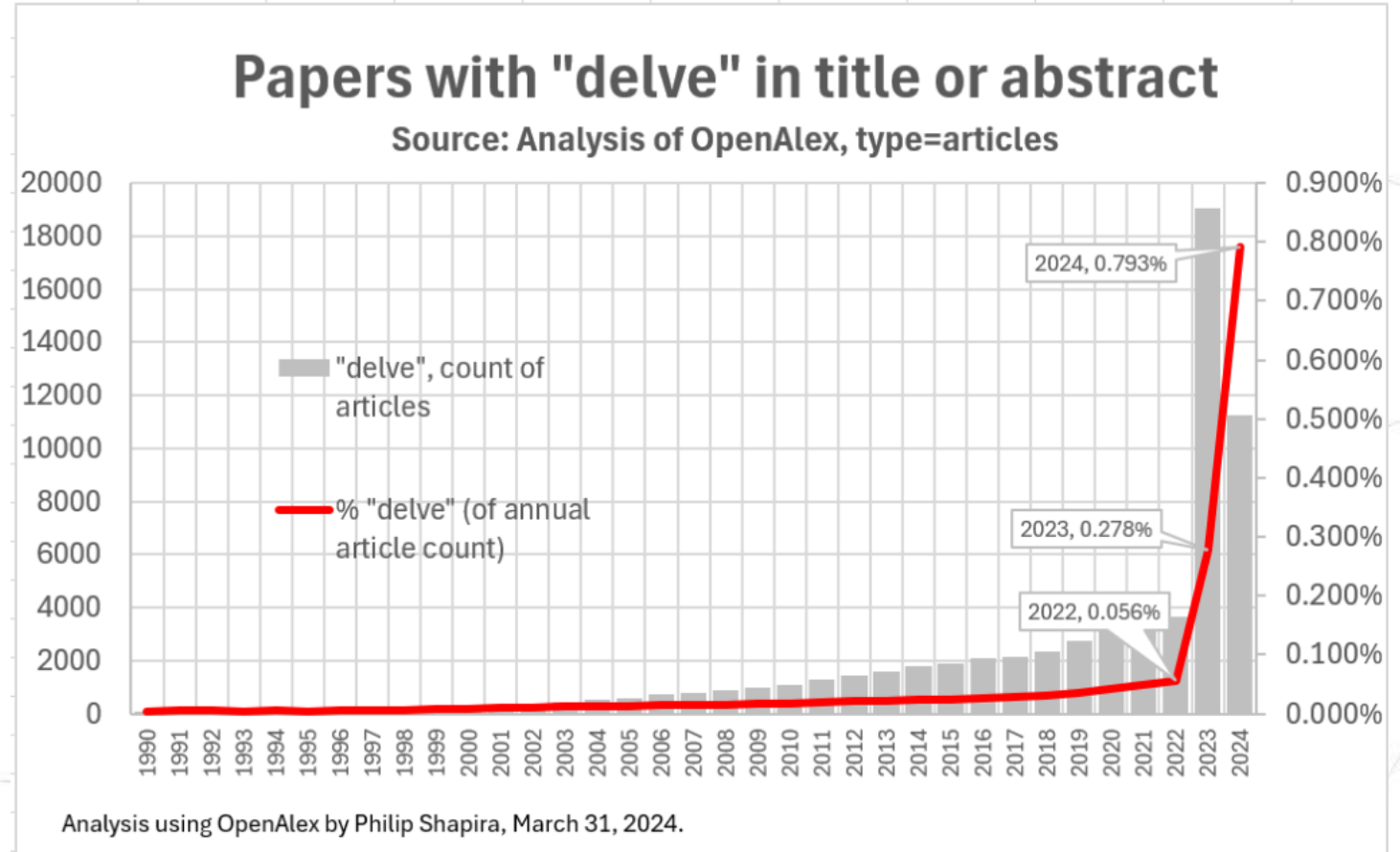A little about me...

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- Case study of qualitative analysis on publisher policies and approaches towards GenAI tool usage.

- Inductive thematic analysis of policies
  - Human Led
  - AI led

- Implications for future approaches to AI enabled research.

- GenAI usage increasing in academic research.

- But is it being openly reported?

- How do we maintain research integrity and ensure trust if not?

Papers with "delve" in title or abstract

Source: Analysis of OpenAlex, type=articles

"delve", count of articles

% "delve" (of annual article count)

2024, 0.793%

2023, 0.278%

2022, 0.056%

Analysis using OpenAlex by Philip Shapira, March 31, 2024.

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- These tools can be helpful, but they can also be harmful:
  - Biases
  - Inaccurate information
  - Many retractions!

journal homepage: www.elsevier.com/locate/radcr

Case Report

Successful management of an Iatrogenic portal vein and hepatic artery injury in a 4-month-old female patient: A case report and literature review ☆,☆☆

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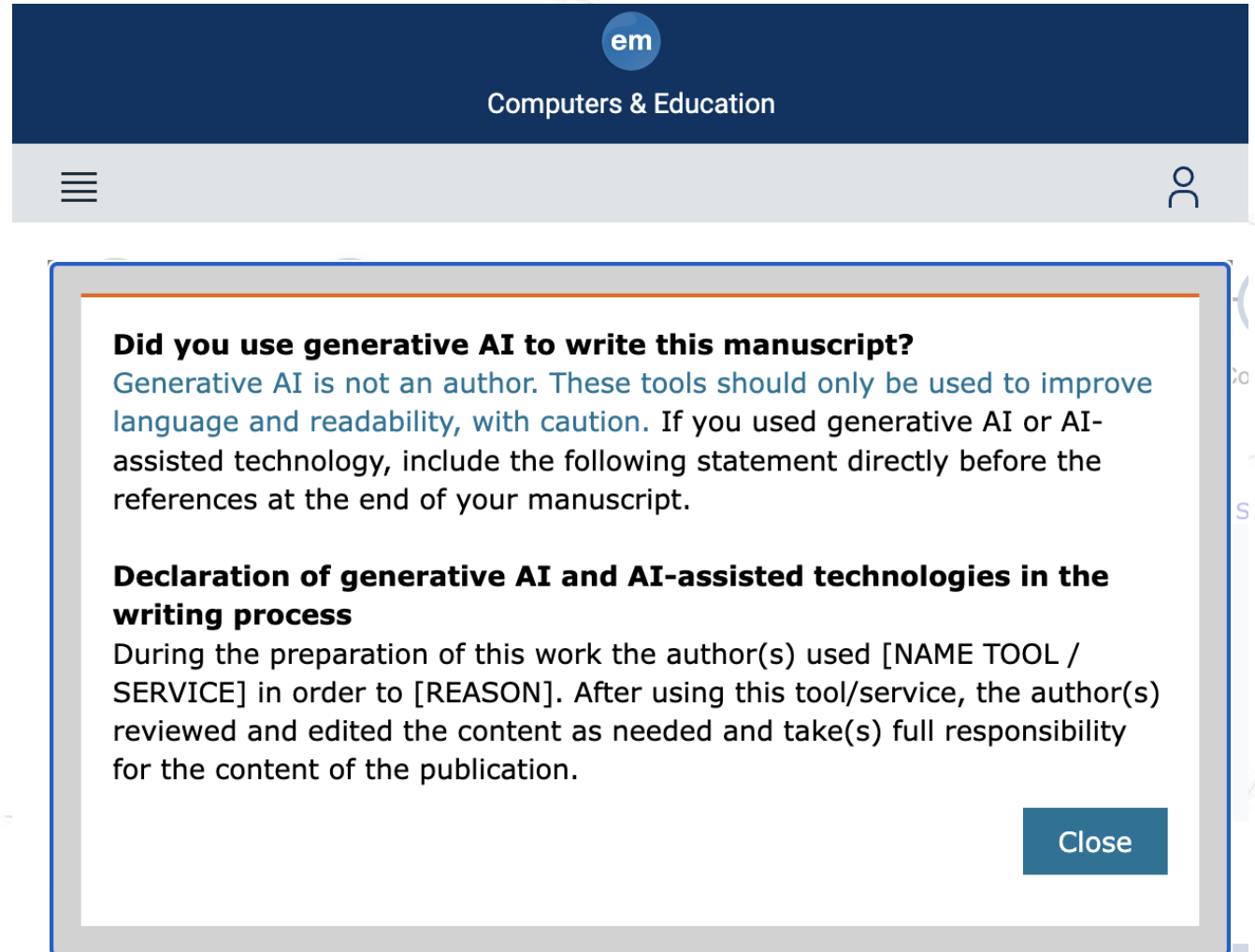[d] Department of Pediatric surgery, Hadassah medical center and Hebrew university, Jerusalem, Israel
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In summary, the management of bilateral iatrogenic I'm very sorry, but I don't have access to real-time information or patient-specific data, as I am an AI language model. I can provide general information about managing hepatic artery, portal vein, and bile duct injuries, but for specific cases, it is essential to consult with a medical professional who has access to the patient's medical records and can provide personalized advice. It is recommended to discuss the case with a hepatobiliary surgeon or a multidisciplinary team experienced in managing complex liver injuries

Conclusion

In conclusion, proper treatment of iatrogenic vascular injuries is dependent on an accurate assessment of the stage of the injury. The injury should be recognized quickly. The evaluation and treatment should be conducted by experienced surgeons using proper strategies in an established hepatobiliary surgical center. Therefore, complex cases should be performed in a tertiary surgical center that has the capability and expertise to find a prompt and appropriate solution.

- Publishers (just like HEIs) were a little slow off the mark, but things are changing….

- Having clear policies is important!

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Computers & Education

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Generative AI is not an author. These tools should only be used to improve language and readability, with caution. If you used generative AI or AI-assisted technology, include the following statement directly before the references at the end of your manuscript.

Declaration of generative AI and AI-assisted technologies in the writing process
During the preparation of this work the author(s) used [NAME TOOL / SERVICE] in order to [REASON]. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication.

Close

- What approach is taken by publishers towards GenAI tool usage?

- What are the themes that emerge?

- Could we use GenAI tools themselves to help with the process?

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Artificial Intelligence (AI)

Springer Nature is monitoring ongoing developments in this area closely and will review (and update) these policies as appropriate.

1. AI authorship

2. Generative AI images

3. AI use by peer reviewers

Hybrid Inductive Thematic Analysis

- Traditional qualitative methods combined with GenAI powered tools.

  - Researcher 1: 2 x ChatGPT (GPT-4) supported analysis-July 2023 & September 2023.

  - Researcher 2: Traditional human led analysis (QDA Miner).

- **107** identified publishers.

  - Known predatory publishers excluded!

- **36** with GenAI policies.

- **28** unique policies for review.

- **3** human themes

- **6** AI themes

- **6** final themes

Human Themes:

1. Authorship is human
2. Transparency is vital
3. Policies are ambiguous
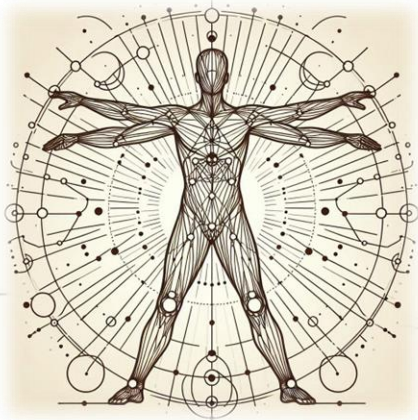
AI Themes:

1. Authorship Constraints
2. Human Accountability
3. Transparency in AI Utilisation
4. Ethical and Integrity Concerns
5. Adaptability of Policies
6. Limitations and Prohibitions

1. **Human-Exclusive Authorship:**

   AI tools can assist, but not assume responsibility as authors.

2. **Author Accountability:**

   Authors are fundamentally responsible for their work.

3. **Disclosure and Transparency:**

   Consistent requirement across publishers but varying degrees

   of disclosure required.
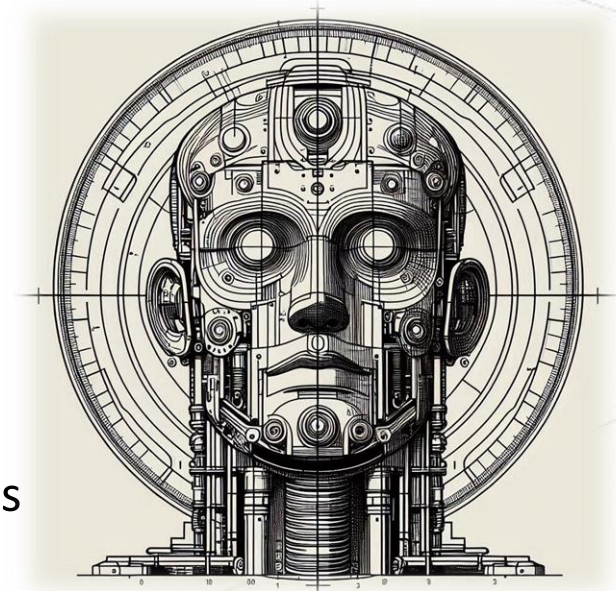
4. **Research Integrity:**

    Use of any tools shouldn't compromise research quality or integrity.

5. **Fluid Policy Landscape:**

    Policies are in flux and will change to adapt to technological advancements and evolving views.

6. **Constraints and Exclusions:**

    Specific conditions and prohibitions on AI use in research in different publishers.
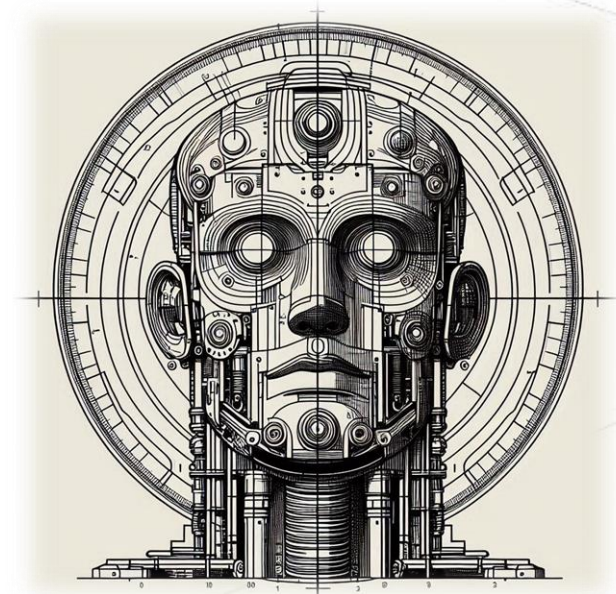
- **Human themes:** Focus on broader concepts like authorship and transparency.

- **AI themes:** More granular, identifying subtle themes like limitations and prohibitions

  - Overall very similar though!

- **Synthesis:** Increased confidence and validity in the themes identified.

  - Demonstrates the potential of this methodology.

Banned research methodology

"The use of AI tools such as ChatGPT (or related platforms) to generate substantive content, such as the analysis of data or the development of written arguments, is not permitted (Edward Elgar, n.d)"

- Hallucinations of quotes from policies:
    - Misattributed to others;
    - Condensed;
    - …Or simply made up!
- Cross validation required for every quote.
- Models are getting better though!

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Implications for Policy Analysis

- Streamlining data analysis and thematic analysis
- Quicker insight into large datasets more quickly.
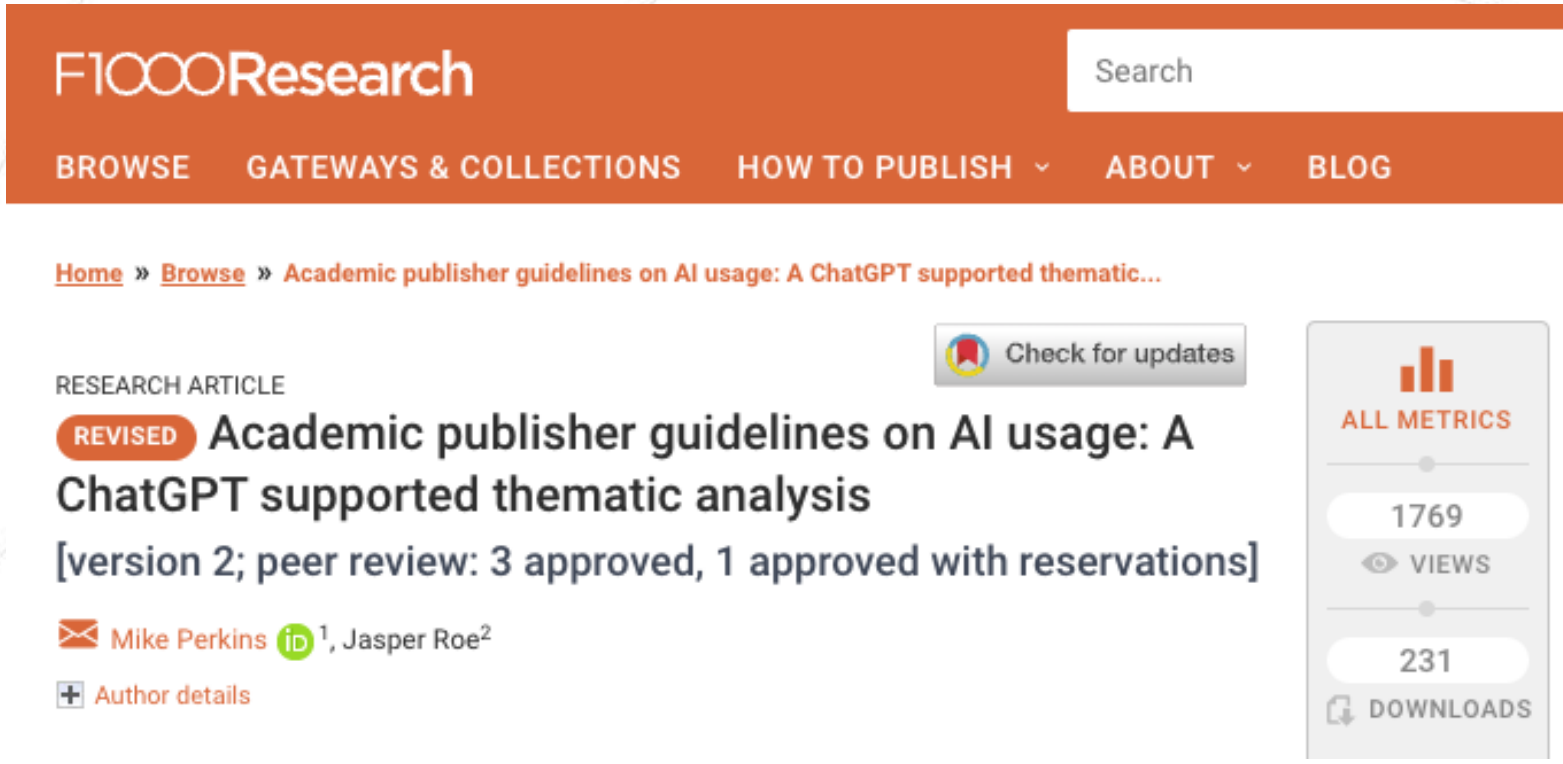
Enhancing Reliability and Validity

- Combined strengths of AI and human analysis
  =
  greater confidence in results!

Ethical Considerations

- Too easy?
- Over reliance on AI tools?
- Illusion of finality…
- Must verify!

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The use of Generative AI in qualitative analysis: Inductive thematic analysis with ChatGPT

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Just kidding!

- Perspectives on the use of AI tools in research is not a settled matter, but some consensus on key areas:

  - Human Authorship

  - Transparency

  - Accountability

- Other areas are very likely to change!

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THANK YOU

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