

Introduction to Academic writing

Dr Kirstin Krauss

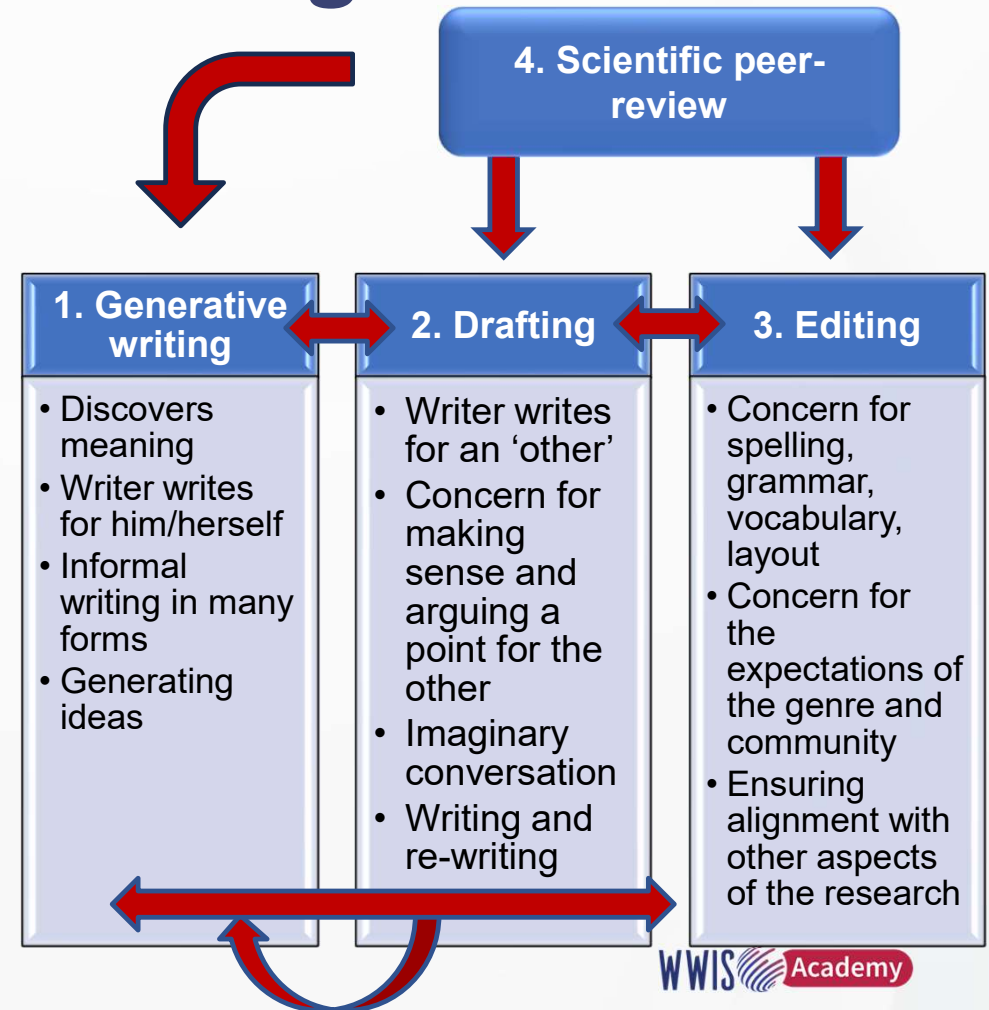
WWIS Research Advisor

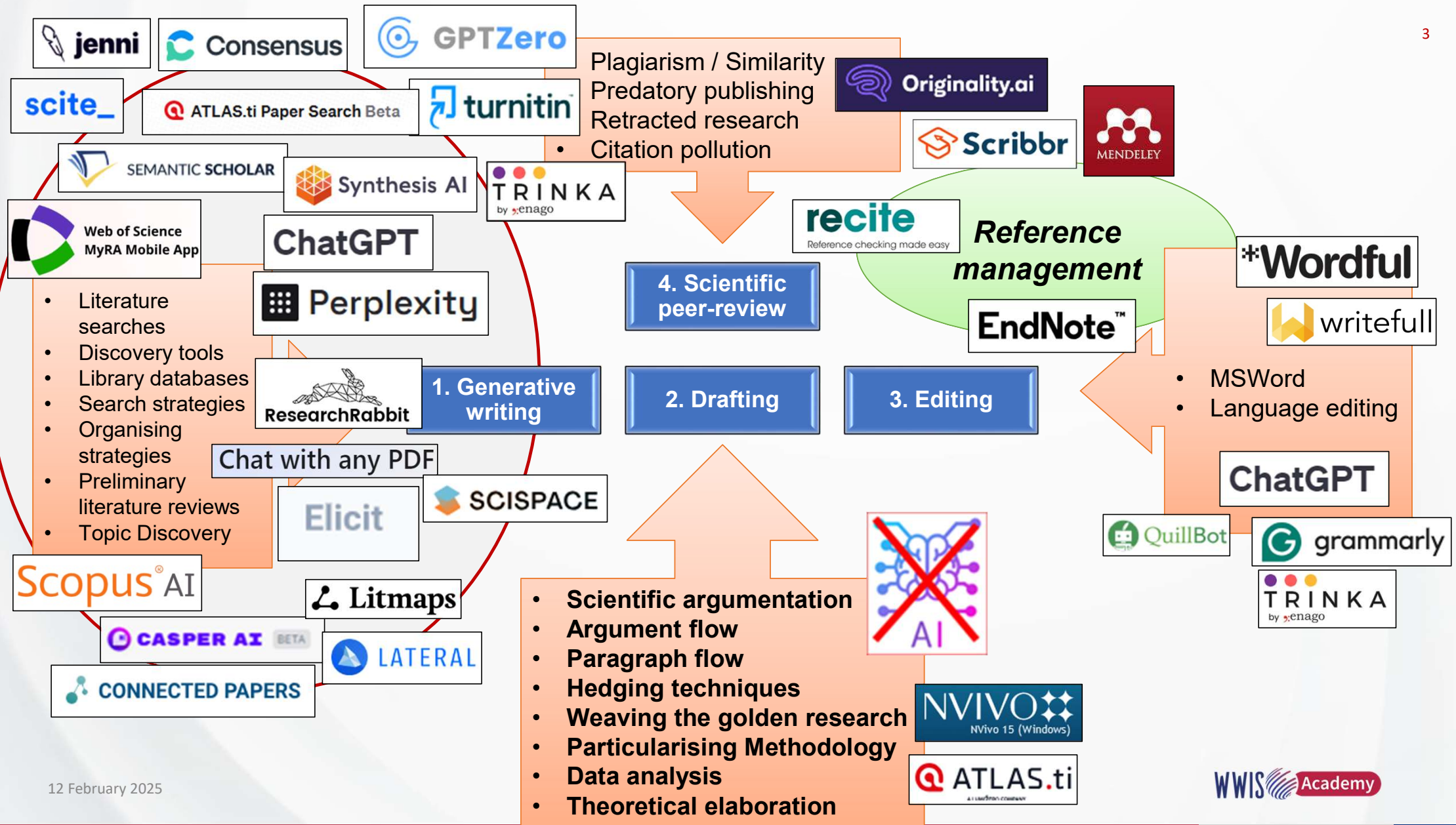
<https://www.linkedin.com/in/kirstin-krauss>

<https://academy.wwis.co.za/>

Four phases of academic writing

- In the **first** phase your brainstorming ideas. In such case you can write author or article driven. **Writing as a form of thinking.**
- In the **second** phase, you need to start **constructing a conversation**, an argument
- In the **third** phase you do **editing and focus on presentation**
- In phase **four: Engagement/Validation** from the scientific community – reviewers, examiners, editors

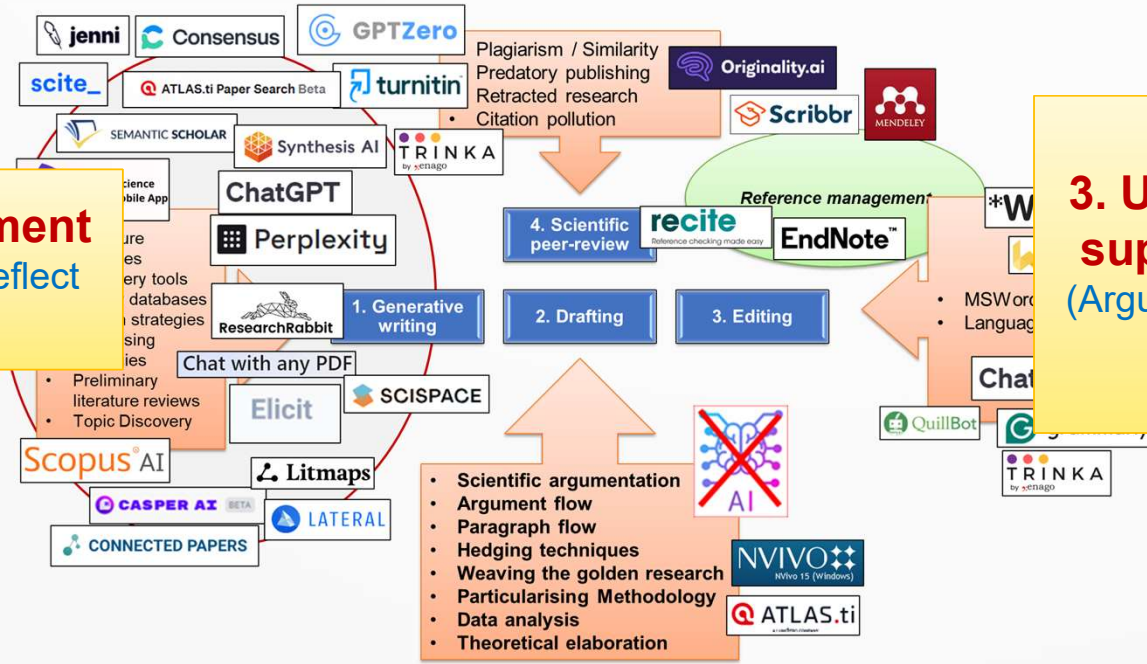




4. Doing research with integrity
 (Scientific peer-review, Research integrity, AI ethics, avoidance strategies)

1. AI & topic development
 (Identify, organise, write & reflect about literature)

3. Using AI driven tools to support writing & editing
 (Argumentation in writing, weaving, AI biases, proofreading)

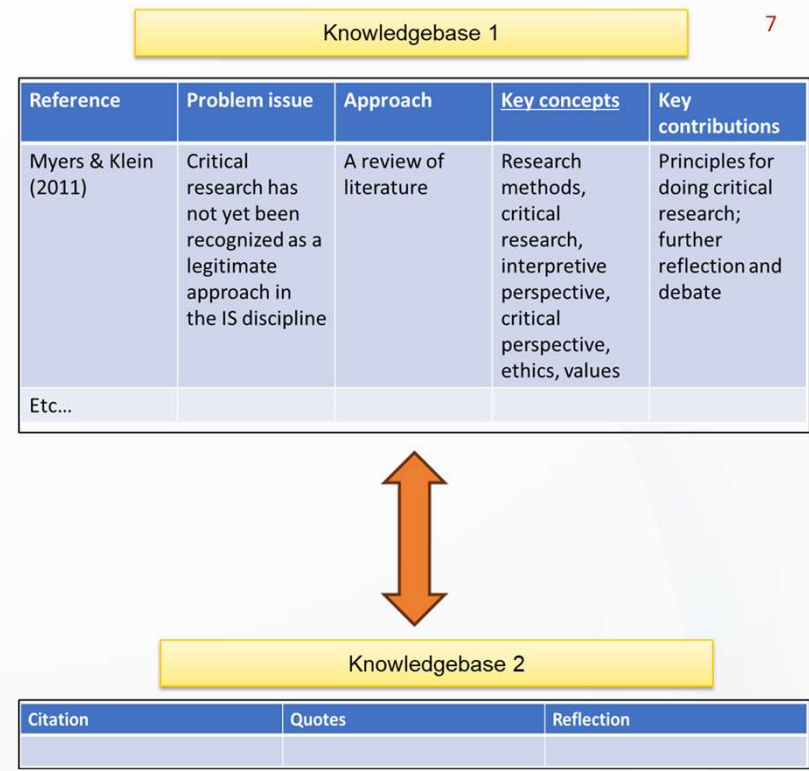
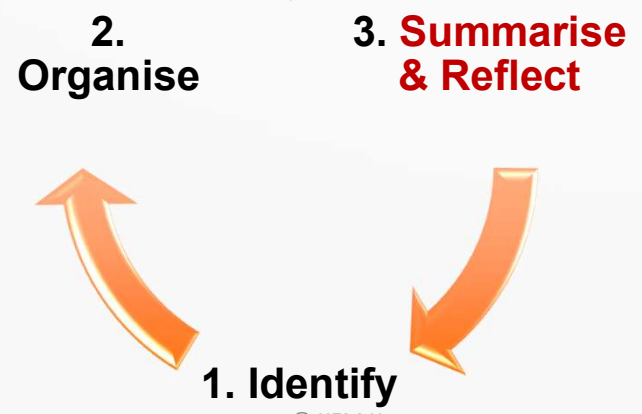
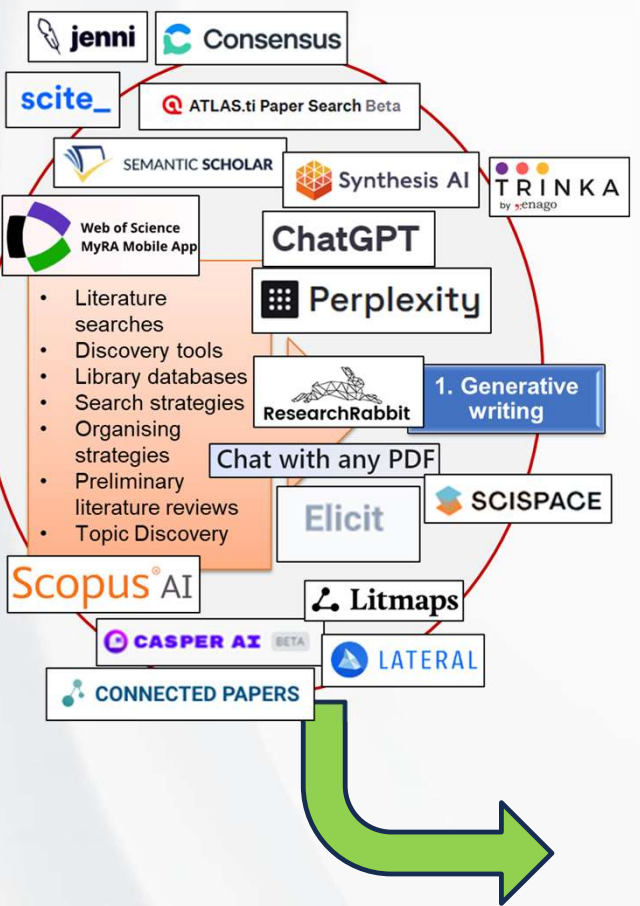


2. GenAI & scientific argumentation
 (What is scientific knowledge production and argumentation?)

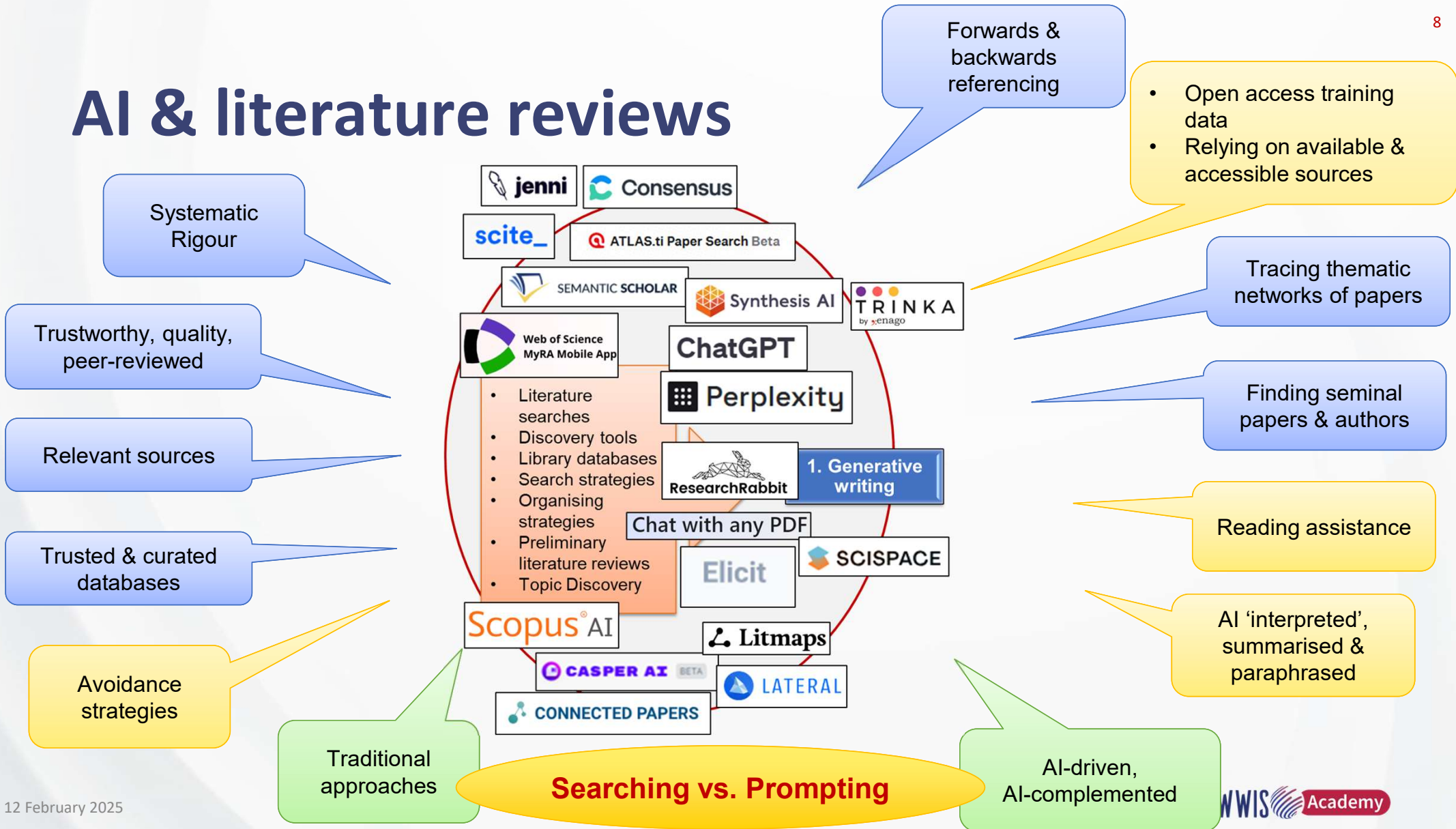


1. AI & topic development

(Identify, organise, write & reflect
about literature)



AI & literature reviews





Kai Riemer • Following

Professor, Futures Strategist & Board Advisor | Sydney Executive Plus, University of Syd...

2d • Edited •

After initial testing, my verdict: OpenAI's Deep Research can be useful. And very dangerous.

The stuff it produces is certainly comprehensive and impressive. It finds lots of material, sorts it, summarises and combines it in convincing ways. It can be very useful.

But.

It doesn't understand anything, and it is fundamentally unreliable. At its core is still an LLM that was styled to 'reason'.

But it "reasons" only in so far as finding and tracing 'if then' relationships, and recombining them, can be called reasoning. Can you reason without true understanding? That is what it comes down to.

https://www.linkedin.com/posts/kairiemer_ai-openai-deepresearch-activity-7294462349879521281-Ld0P?utm_source=share&utm_medium=member_desktop&rcm=ACoAABMrEgBmF6MRDFXuM5Je8gcA-xADF35yIk

2. GenAI & scientific argumentation

(What is scientific knowledge
production and argumentation?)

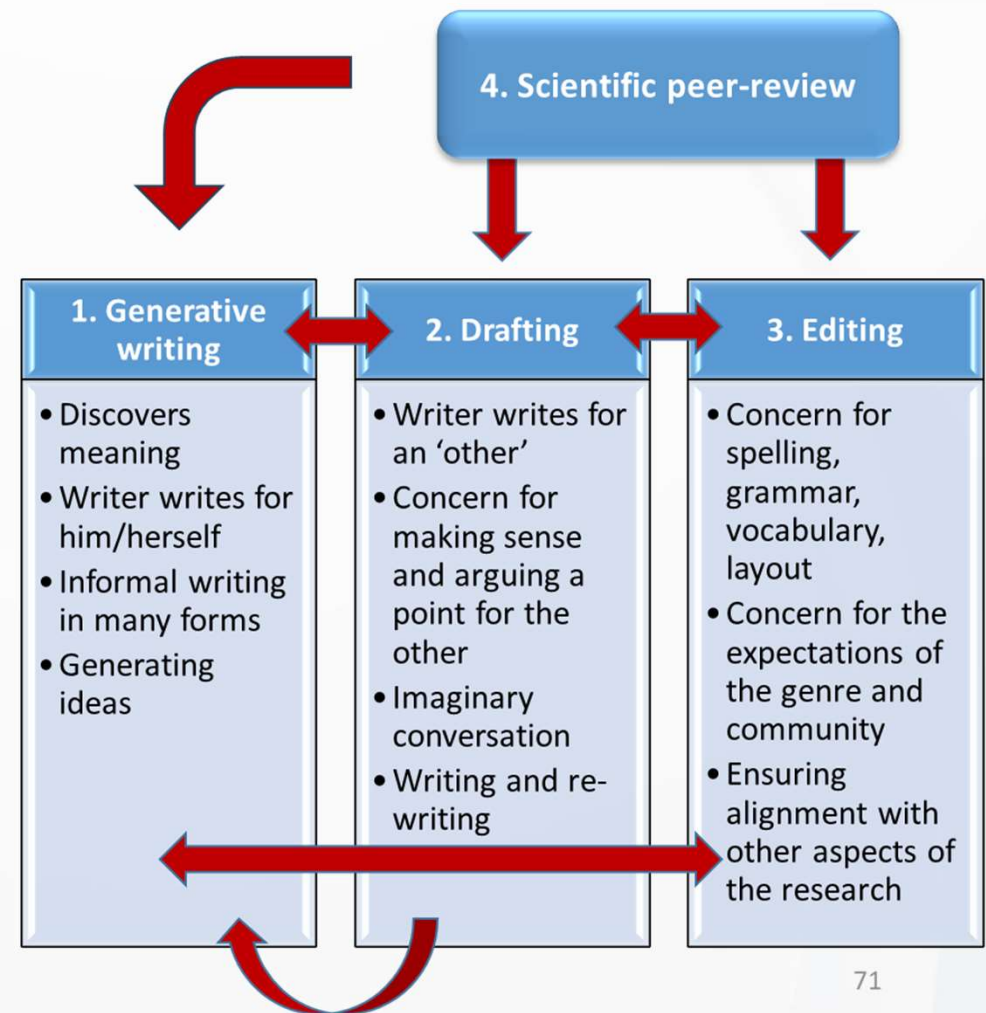
Two parts to **drafting arguments**

A) Developing the basic overarching scientific claims, e.g.

- The question(s) proposed by the researcher is relevant and persisting in the field of study
- The researcher has demonstrated a command of the literature of the discipline in which the researcher is working

B) Crafting arguments in writing – ‘weaving the golden thread’:

- Scientific argumentation
- Argument flow
- Paragraph flow
- Theoretical elaboration



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Using organizational influence processes to overcome IS implementation barriers: lessons from a longitudinal case study of SPI implementation

Ojelanki Ngwenyama^{1,2} and Peter Axel Nielsen^{3,4}

Abstract

A fundamental tenet of organizational influence is the use of formal power and i

Introduction


For decades, the information systems (IS) discipline has held that weak or absent top-management support is a barrier to successful IS implementation and change projects (Ein-Dor & Segev, 1978; Markus, 1983; Markus & Benjamin, 1996; Thong *et al*, 1996; Sabherwal *et al*, 2006). The central argument posits that implementing new information technologies in organizations is a complex and challenging undertaking that radically changes social structures, culture and processes, and the behaviour of actors, and it thus requires top management's sponsorship and considerable influence to succeed (Abrahamsson, 2001; Börjesson & Mathiassen, 2004; Sabherwal *et al*, 2006). According to Markus & Benjamin (1996), the following three conditions are 'structurally incompatible' with IS implementation success: (1) the absence of managerial authority over the organization targeted for change; (2) negative perceptions of the change organization members; and (3) weak top-management support for the IS change initiative. However, a recent empirical study by

influence others to support their projects. *Journal of Product Innovation Management* **15**(6), 490–504.

MARKUS ML (1983) Power, politics, and MIS implementation. *Communications of the ACM* **26**(6), 430–444.

MARKUS ML and BENJAMIN RI (1996) Change agency: the next IS frontier. *MIS Quarterly* **20**(4), 385–407.

MATHIASSEN P (2002) Collaborative practice research. *Information Technology & People* **15**(4), 321–345.



3. Using AI driven tools to support writing & editing
(Argumentation in writing, weaving, AI biases, proofreading)

How AI can dilute the argument or misconstrue writing.

ChatGPT 3.5

In this research we suggest that wilful amnesia and an apparent lack of awareness may well be related to the **obfuscated** nature of dataveillance practices on social media sites and the digital entrapment it depends upon (Ngwenyama & Klein, 2018). One can argue as such, because otherwise social media sites would not have enjoyed the same amount of popularity they currently do.

Dataveillance on social media websites, the monitoring, control, and exploitation it may represent, are therefore **riddled with ethical contradictions, concealed purposes and agenda, and ultimately ideology** (Van Dijck, 2013, 2014; Ngwenyama & Klein, 2018). And, while research with methodological guidance in this area focusses mostly on verbal and textual elements, the role of visual aspects and **hidden agendas** are not adequately addressed (Pauwels, 2012).

In this research, we propose that the prevalence of wilful amnesia and the apparent lack of awareness may be intrinsically linked to the concealed and **complex** nature of dataveillance practices on social media platforms, and the digital entrapment upon which they rely (Ngwenyama & Klein, 2018). This argument is supported by the enduring popularity of social media sites, which suggests that users either consider the benefits of these platforms to outweigh potential risks **or remain unaware of the extent of data exploitation from the outset.**

Dataveillance on social media websites encompasses monitoring, control, and exploitation, and it is **characterized by ethical contradictions, hidden purposes, underlying agendas, and an overarching ideological dimension** (Van Dijck, 2013, 2014; Ngwenyama & Klein, 2018). Despite methodological progress in research, which has primarily focused on verbal and textual components, visual elements and **concealed motivations** have not received adequate attention (Pauwels, 2012).

ChatGPT 4

Van Der Schyff, K., Krauss, K. and Kroeze, J., 2018. Facebook and Dataveillance: Demonstrating a Multimodal Discourse Analysis. In Proceedings of Twenty-fourth Americas Conference on Information Systems 2018, Digital Disruption, New Orleans

Prompt: Proofread this for an academic paper:

"In this research we suggest that willful amnesia and an apparent lack of awareness may well be related to the obfuscated nature of dataveillance practices on social media sites and the digital entrapment it depends upon (Ngwenyama & Klein, 2018).

One can argue **as such**, because otherwise social media sites **would not have enjoyed** the same **amount** of popularity they currently do. Dataveillance on social media websites, the monitoring, control, and exploitation **it may represent, are therefore** riddled with ethical contradictions, concealed purposes and agenda, and ultimately ideology (Van Dijck, 2013, 2014; Ngwenyama & Klein, 2018).

And, while research with methodological guidance in this area **focusses mostly** on verbal and textual elements, the **role** of visual aspects and hidden agendas **are** not adequately addressed (Pauwels, 2012). "

ChatGPT 4:

"In this research, we suggest that willful amnesia and an apparent lack of awareness may well be related to the obfuscated nature of dataveillance practices on social media sites and the digital entrapment upon which it depends (Ngwenyama & Klein, 2018).

One can argue **this because**, otherwise, social media sites **would not enjoy the same level** of popularity they currently do. Dataveillance on social media websites, **embodying** monitoring, control, and potential exploitation, **is therefore** riddled with ethical contradictions, concealed purposes and agendas, and ultimately, ideology (Van Dijck, 2013, 2014; Ngwenyama & Klein, 2018).

Moreover, while research with methodological guidance in this area **primarily focuses** on verbal and textual elements, the **roles** of visual aspects and hidden agendas **are** not adequately addressed (Pauwels, 2012)."

Here are the key changes:

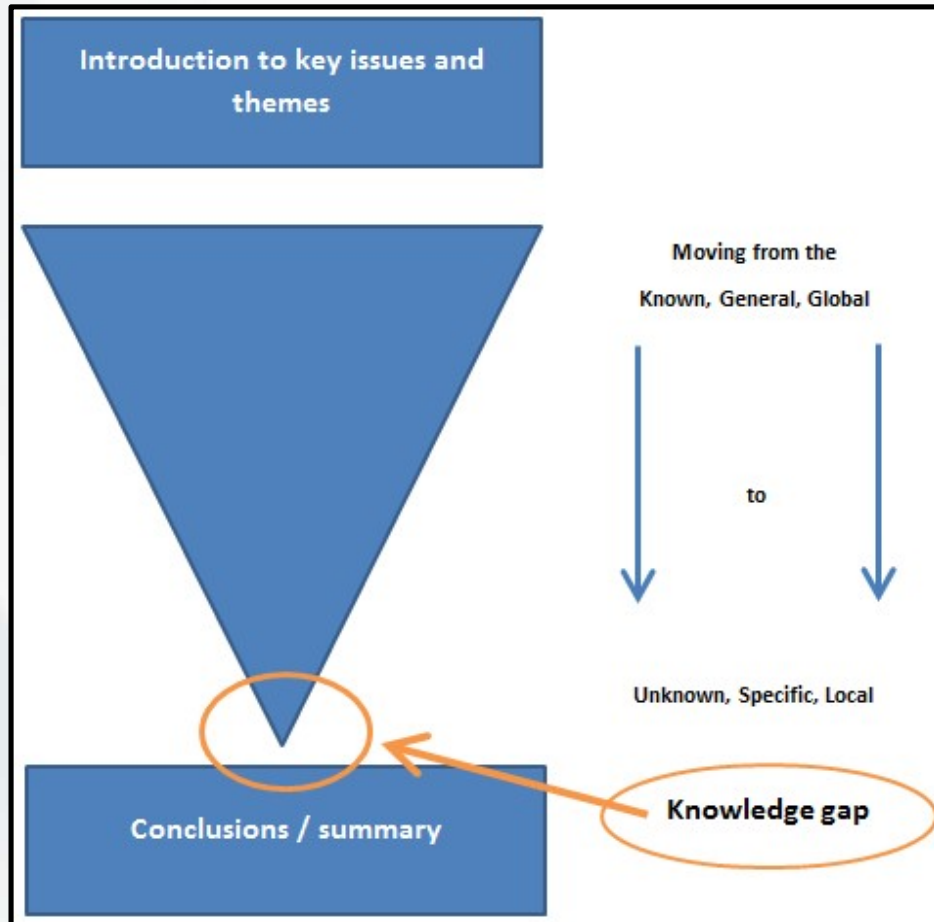
1. Added a comma after "In this research" for grammatical correctness.
2. Changed "argue as such" to "argue this" for smoother readability.
3. Added a comma after "because, otherwise," to separate clauses more clearly.
4. Changed "would not have enjoyed" to "would not enjoy" to match the present tense used throughout the passage.
5. Changed "represents" to "embodying" for a more accurate description of dataveillance that includes "monitoring, control, and potential exploitation."
6. Changed "concealed purposes and agenda" to "concealed purposes and agendas" for grammatical consistency.
7. Added "moreover" to the beginning of the last sentence to provide a smooth transition between ideas.
8. Changed "focusses" to "focuses" to correct the spelling.
9. Changed "the role of visual aspects and hidden agendas are" to "the roles of visual aspects and hidden agendas are" for subject-verb agreement and to imply that both aspects have multiple roles.

ChatGPT 4

Crafting Abstracts

- The typical focus of an abstract
 - The study area or discipline
 - Problem or issue
 - The approach
 - Value and contribution
- Study abstracts of the outlet to which you submit

Structuring a section or paragraph (Krauss 2017)

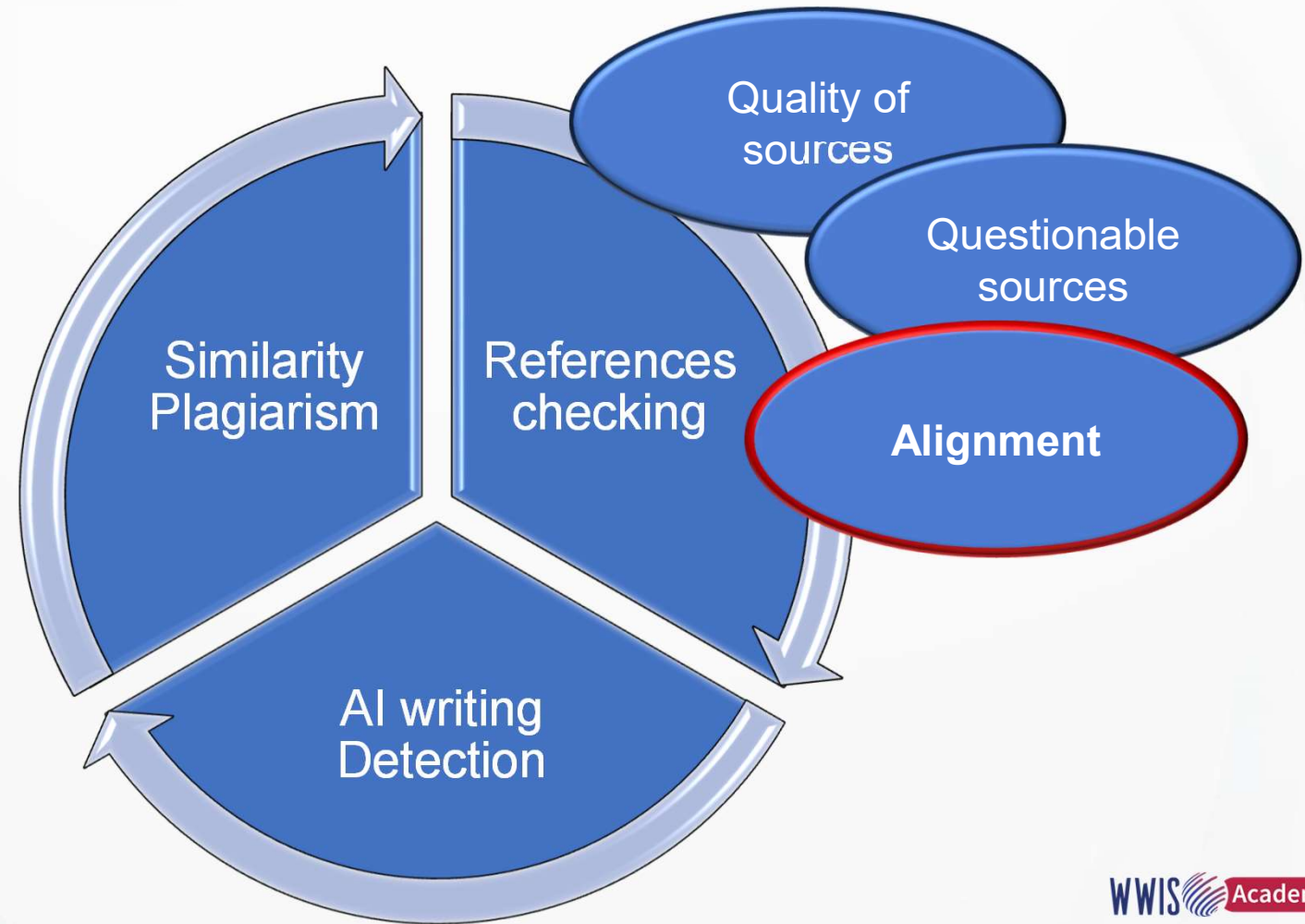


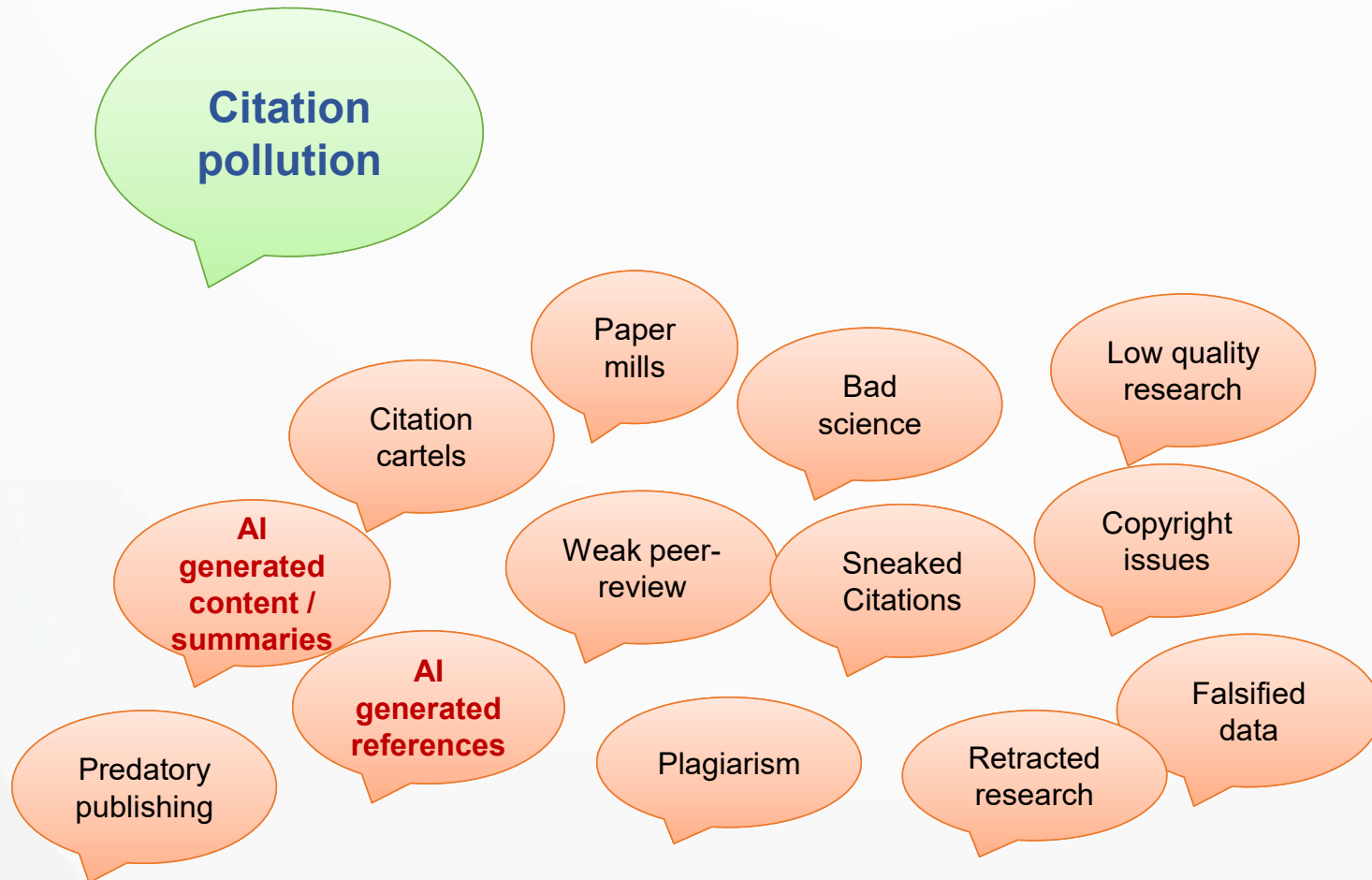
Focusing on the discussing of **themes/ideas/claims** rather than on authors

4. Doing research with integrity

(Scientific peer-review, Research integrity,
AI ethics, avoidance strategies)

Combination of detection tools needed





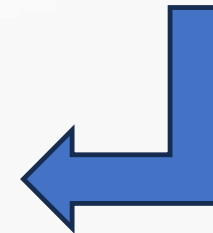
AI Pollution / Dilution

- "Scientists warn of AI collapse"
- "The more AI eats its own output, **the less variety the output has**"
- "Its like plastic pollution, it won't be long before we eat and breath this stuff"
- "AI needs human creativity"



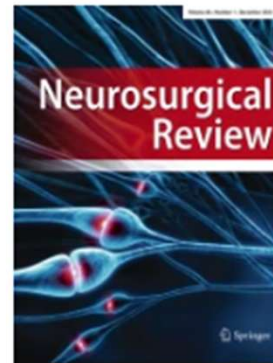
<https://www.youtube.com/watch?v=NcH7fHtgGYM>

"...the world is going to run out of data for AI. It needs more trusted original source data."



As Springer Nature journal clears AI papers, one university's retractions rise drastically

Neurosurgical Review has begun retracting scores of commentaries and letters to the editor after getting inundated by AI-generated manuscripts. At the top of the affiliations list: Saveetha University in Chennai, India, an institution that, as we reported with *Science* in 2023, engages in aggressive self-citation.



At publication time, *Neurosurgical Review* had retracted 129 papers so far this year. The journal, a Springer Nature publication, paused acceptance of letters to the editor and commentaries last

📅 February 10, 2025

<https://retractionwatch.com/2025/02/10/as-springer-nature-journal-clears-ai-papers-one-universitys-retractions-rise-dramatically/>

12 February 2025

Neurosurgical Review has begun retracting scores of commentaries and letters to the editor **after getting inundated by AI-generated manuscripts.** At the top of the affiliations list: Saveetha University in Chennai,


How effective is the use of journal lists (and library websites) to avoid questionable publication practices?

NWU [®] *Library · Special Collections*

Accredited Journals 2024

Search words in the title or ISSN

Approved Journal List

Submit Query Reset  Help

Inmagic Choices Browser - Google Chrome
 https://collections.nwu.edu/

Approved Journal List

| Index | Journal |
|-------|-----------|
| 302 | dhet |
| 20309 | doaj |
| 2229 | ibss |
| 2226 | norwegian |
| 109 | scielo |
| 29009 | scopus |
| 14861 | wos |

Chosen Index:
 Terms
 Words

Add Add & Close Close Help

Annual National Scholarly Editor's Forum (NSEF) Meeting (2021)

“... **DHET trusts international lists to exercise sufficient internal quality checks** to ensure that the journals included in their lists comply with the highest standards of editorial quality and integrity.”

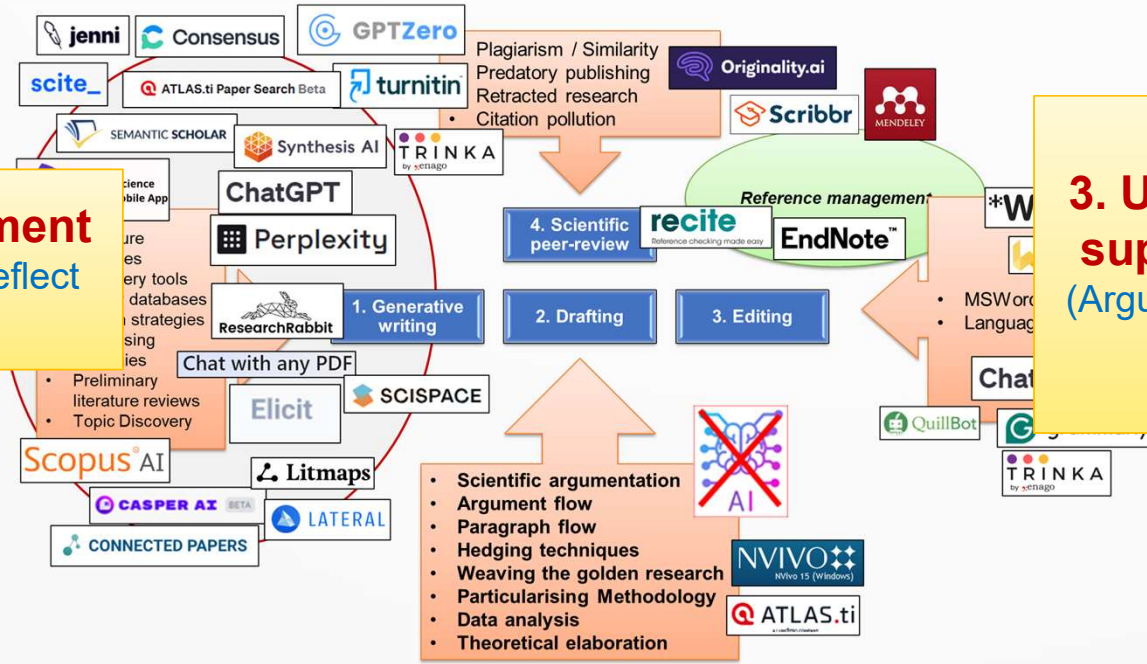
“However, it is now well documented ... **that international journal indexes and lists do not in fact exercise sufficient quality controls;**”

Johan Mouton (2021) (<https://research.assaf.org.za/handle/20.500.11911/221>)

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Questions?

See you again at the WWIS Academy:

- www.wwisacademy.com
- <https://academy.wwis.co.za/>

