A.I. Literacy for Librarians: The future skill of research support

S(d + b)2

Speaker: Iris Hsu

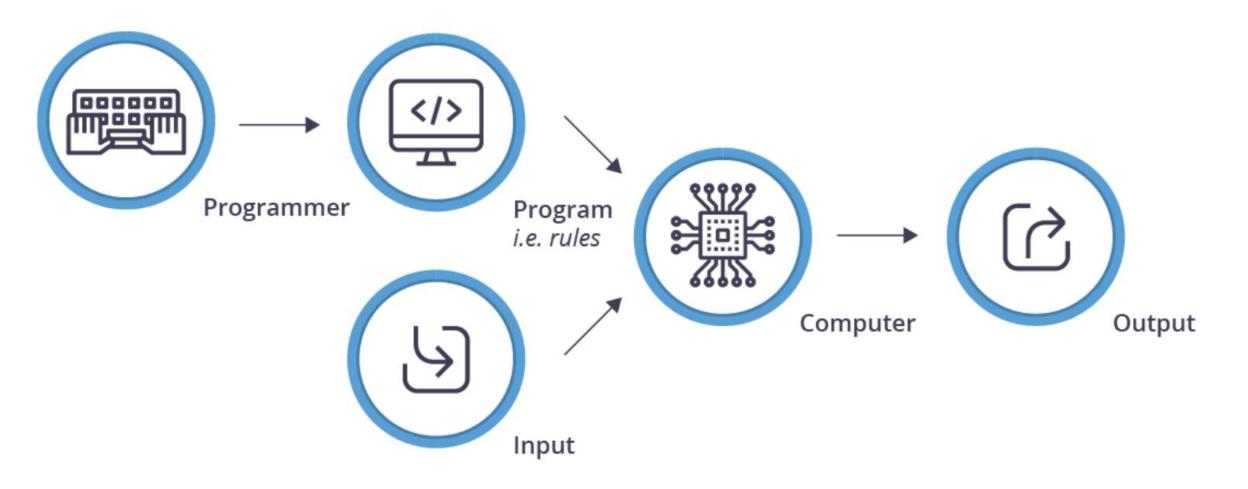


Time	
13:30	Opening & Unlocking the World of A.I.
13:50	Hands-on
14:00	Introduction to A.I. in Research Workflow
14:50	Hands-on & break
15:10	A.I. & Academic Integrity
15:45	Discussion: "Empowering librarians for A.I. adoption!"
16:15	End

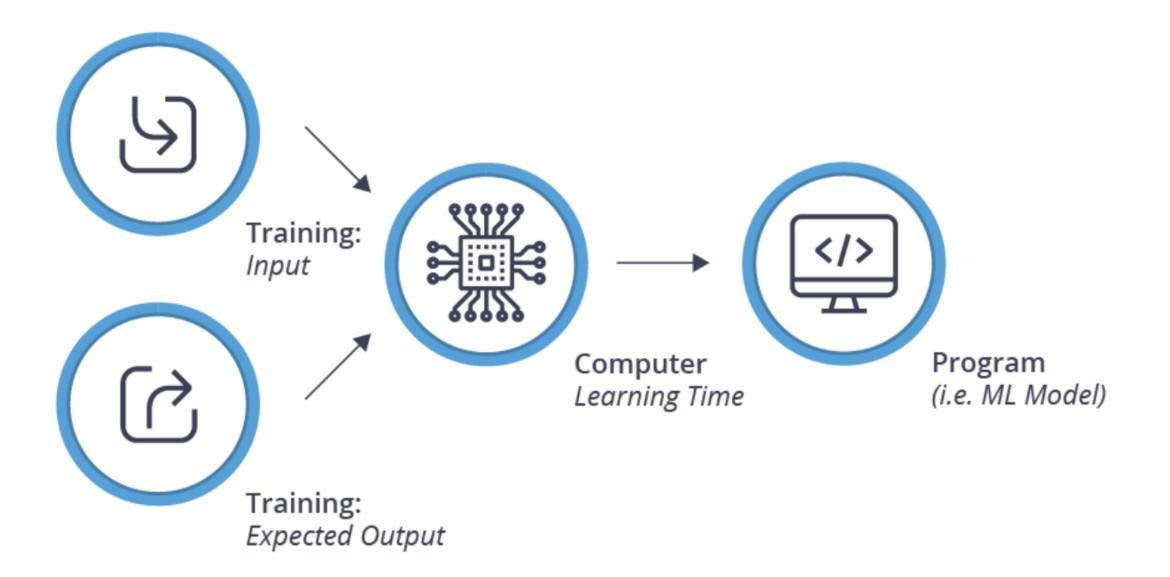


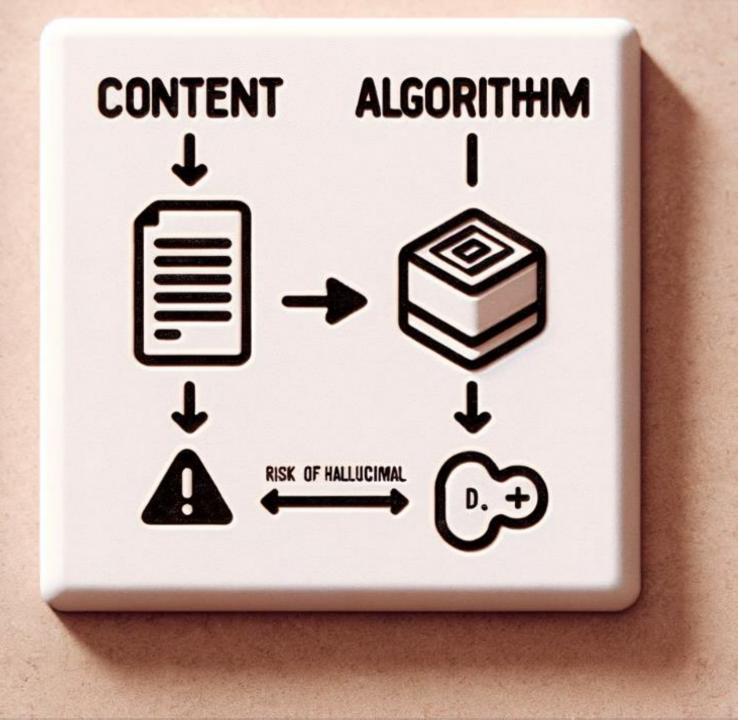
Unlocking the World of A.I.

Traditional Computing

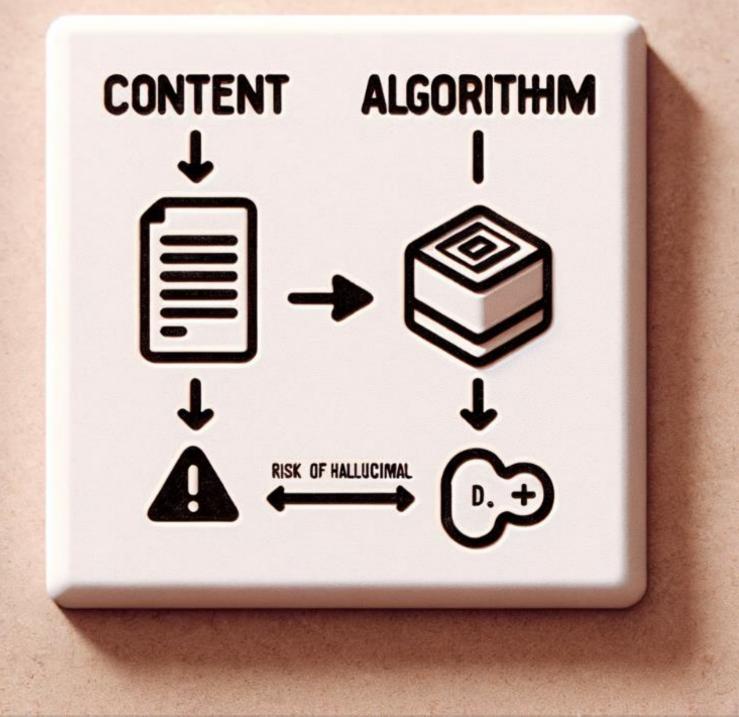


The Machine Learning Training Process



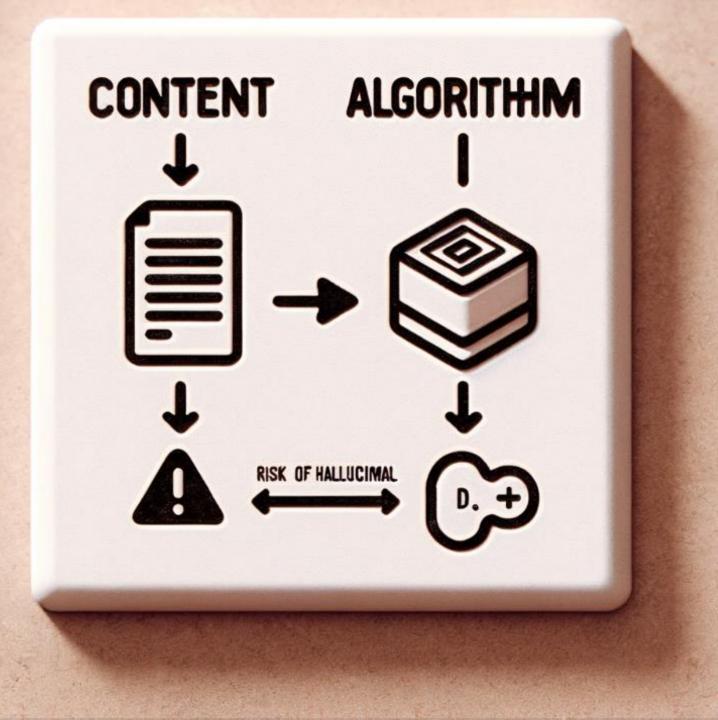


- Contents: Making sure they are peer reviewed, like any journals. Always check the sources of the outcome
 - Algorithm: Hard to tell but always take note of the accuracy of the outcome
- Risk of Hallucination: Al never says "don't know!"



• Make factor of paid or free AI

- Contents: Making sure they are peer reviewed, like any journals.
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- Contents: Making sure they are peer reviewed, like any journals. Always check the sources of the outcome
- Algorithm: Hard to tell but always take note of the accuracy of the outcome
- Risk of Hallucination: Al never says "don't know!"

Good to use it for ideation but be cautious to use it as a reference

what are the pitfalls of using generative ai tools like chatgpt?

While generative AI tools like ChatGPT offer numerous benefits, there are also several pitfalls to be aware of. Here are some common pitfalls and how to mitigate them:

1. Accuracy and Reliability

- Fact-Checking: Al can generate incorrect or misleading information. Always verify facts and data from reliable sources.
- Over-Confidence: Al can sometimes present information with undue confidence, making it seem more reliable than it is.

2. Bias and Ethical Concerns

- Bias in Responses: Al models can reflect and perpetuate biases present in their training data. Be vigilant about identifying and correcting biased content.
- Ethical Use: Using AI to generate harmful, deceptive, or inappropriate content can lead to ethical violations. Adhere to ethical guidelines and standards.

3. Privacy and Security

- Data Sensitivity: Avoid sharing confidential or sensitive information with Al tools to prevent privacy breaches.
- Data Storage: Understand how the Al service handles and stores your data to ensure compliance with privacy regulations.

4. Dependence and Over-Reliance

- Critical Thinking: Relying too heavily on AI can weaken critical thinking and problem-solving skills. Use AI as a tool, not a crutch.
- Human Oversight: Always involve human oversight to review and refine Al-generated content.

5. Context and Understanding

- Lack of Context: AI may not fully understand nuanced or complex contexts, leading to inappropriate or irrelevant responses.
- Clarification: Be prepared to clarify or provide additional context to ensure accurate responses.

6. Creativity and Originality

- Generic Content: Al-generated content can sometimes be generic or lack originality. Use Al for
 inspiration but add your own creative touch.
- Repetition: AI may repeat phrases or ideas, leading to redundancy in the content.

7. Technical Limitations

- Complex Tasks: Al may struggle with highly complex or specialized tasks that require deep expertise or contextual knowledge.
- Error Handling: Be aware that AI can sometimes misinterpret queries or produce errors, requiring manual correction.

8. User Misunderstanding

- Expectations Management: Users may have unrealistic expectations about the capabilities of Al. Understand the limitations and scope of Al tools.
- Training and Familiarity: Users need to be trained on how to effectively use AI tools to avoid frustration and misuse.

9. Cost and Resource Management

- Resource Intensive: Running AI models, especially large ones, can be resource-intensive and costly. Evaluate the cost-benefit ratio for your use case.
- Scalability: Ensure that your infrastructure an handle the demands of integrating AI tools at scale.



Search Engine + Natural Language Processing

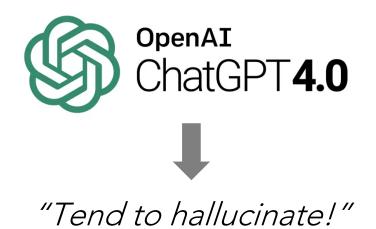
Generative LLM (chatbot) + Search

Generative LLM (chatbot)





ChatGPT 3.5

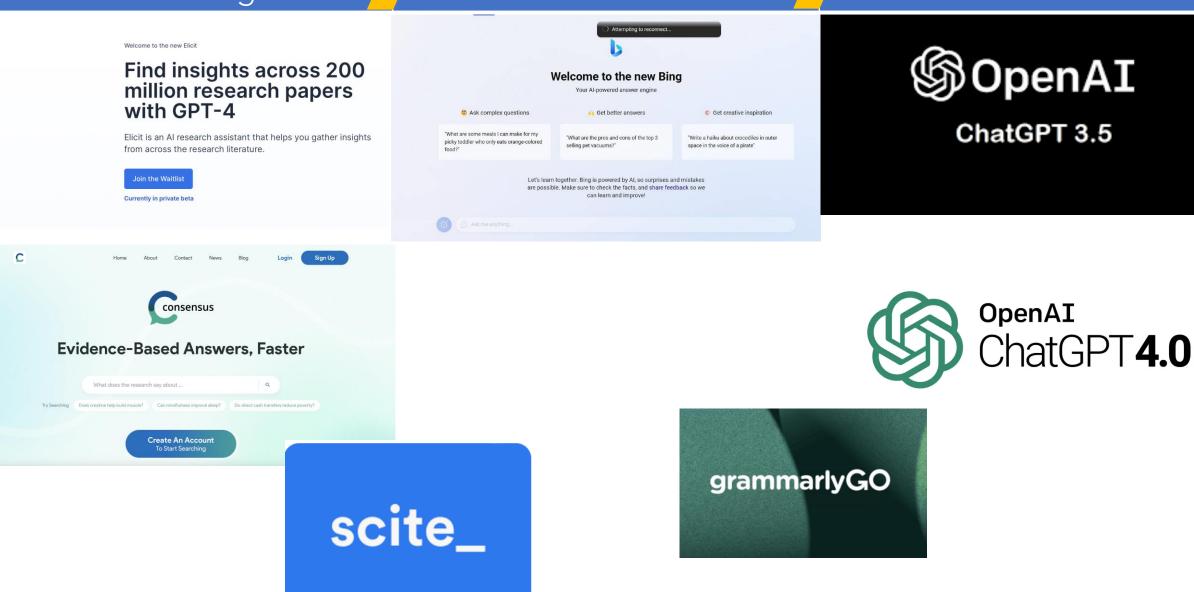


Search Engine + Natural Language Processing

Generative LLM (chatbot) + Search

Generative LLM (chatbot)

Elicit



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16:15	End



Practical:

- Use any generative AI App like ChatGPT, Bing, Gemini, Perplexity.ai
- Ask one technical question that you know the topic well
- Identify any sign of hallucination

Time	
13:30	Opening & Unlocking the World of A.I.
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16:15	End

ChatGPT 4 ~

You

Enrich the script by adding some financial data or news about environmental contributed by the production of ethylene.

S ChatGPT

Revised Video Abstract Script with Financial and Environmental Context for Research on Catalytic Oxidative Dehydrogenation of Ethane on IrO2(110) Surface

[Opening Shot: Aerial views of bustling industrial complexes and serene natural gas fields.]

Narrator: "In an industry that generates over \$160 billion annually, ethylene stands as the cornerstone of modern manufacturing, from plastics to antifreeze. However, its production is energy-intensive, contributing significantly to industrial carbon emissions."

[Cut to: Animation of ethane and ethylene molecules transitioning on screen.]

 \downarrow

ChatGPT 4 ~

This enriched script includes financial statistics and environmental impacts related to ethylene production, providing a broader context that highlights the economic and ecological importance of the research. This should help in capturing the interest of a wider audience, including industry stakeholders and environmentally-conscious viewers.

You Where is the source for \$160 billion ethylene market.

0

S ChatGPT

I included the figure of a \$160 billion ethylene market as a general example to provide context and enhance the script. It isn't from a specific source. For accurate and current financial data, it would be best to consult the latest market research reports or industry analysis on the global ethylene market. These are typically available through market research firms like Grand View Research, MarketsandMarkets, or industry publications that regularly update their statistics and economic reports.

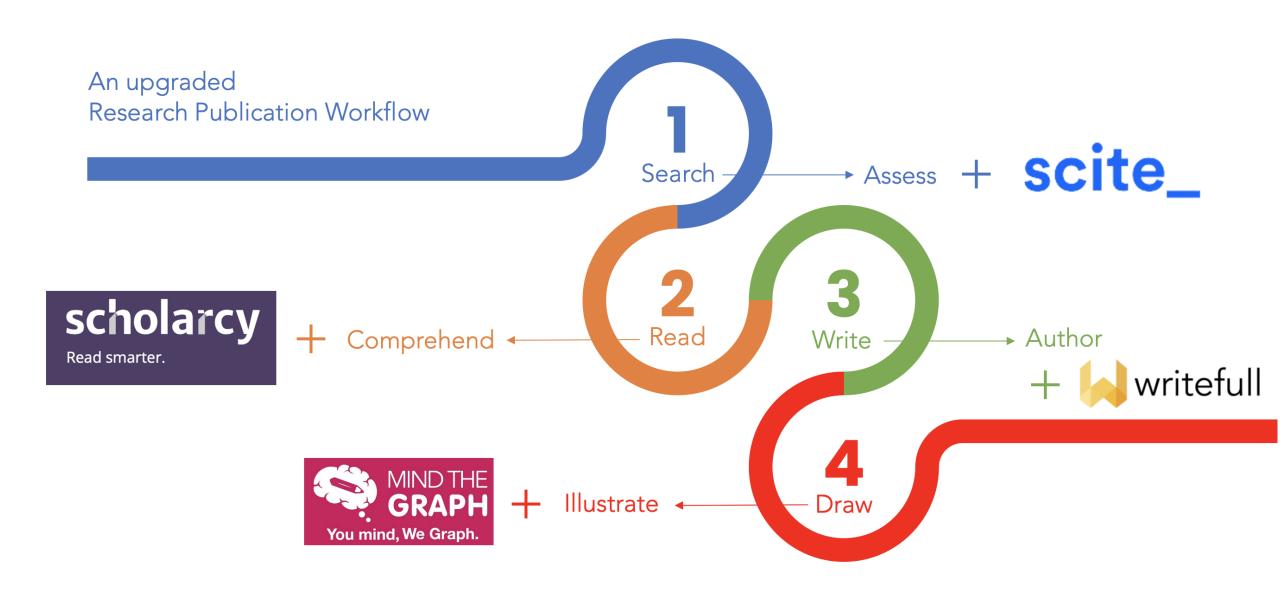
Accelerate Your Research Journey

With so many tools out there, how do you know when to use what tools in order to improve your research efficiency?

Let's take a tour on the road of research journey, and power you up with the right tools!



Made by



Look at the references

scite – Your AI-Powe 🗙 🛛 🕂

MY0291&OCID=MY0291&q=Bing+AI&showconv=1&setlang=en

列中. 立即管理我的最愛

Look at the references

0

Welcome to the new Bin

Your Al-powered copilot for the web

Ask complex questions

"What are some meals I can make for my picky toddler who only eats orange-colored food?"

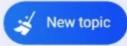
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🕅 Get better answers

"What are the pros and cons of the top 3 selling pet vacuums?"

The same question goes to Assistant by scite

"Write a haiku about crocodiles in outer space in the voice of a pirate"



(=) Ask me anything...

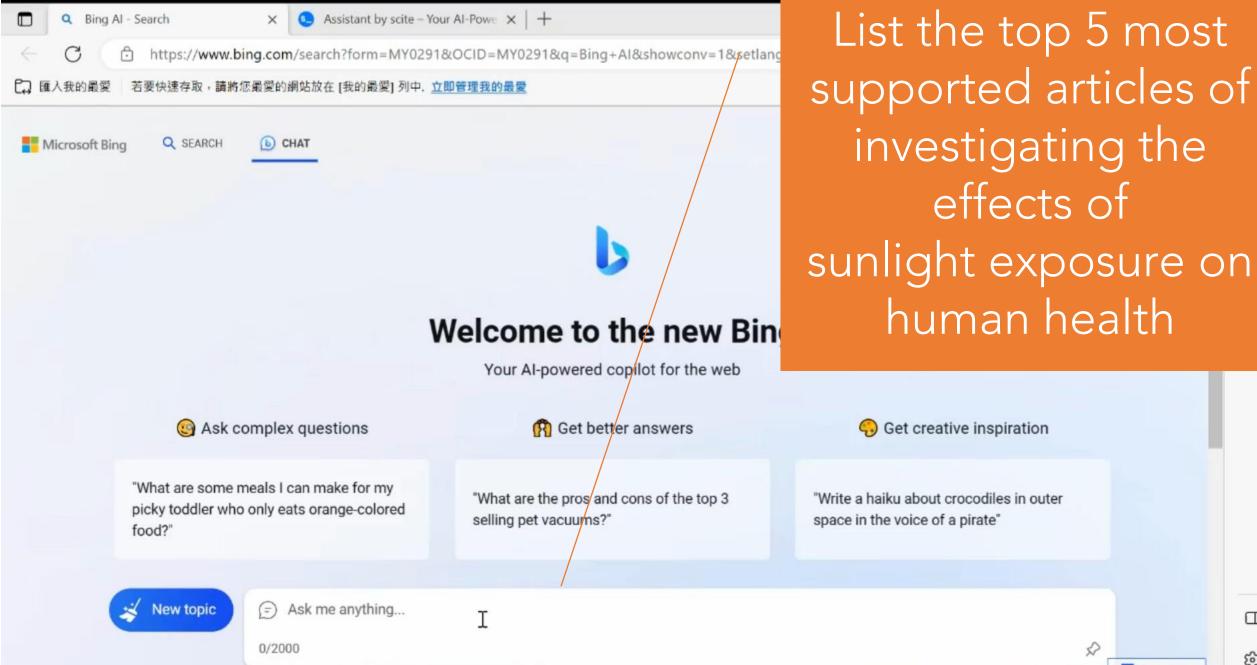
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Feedback

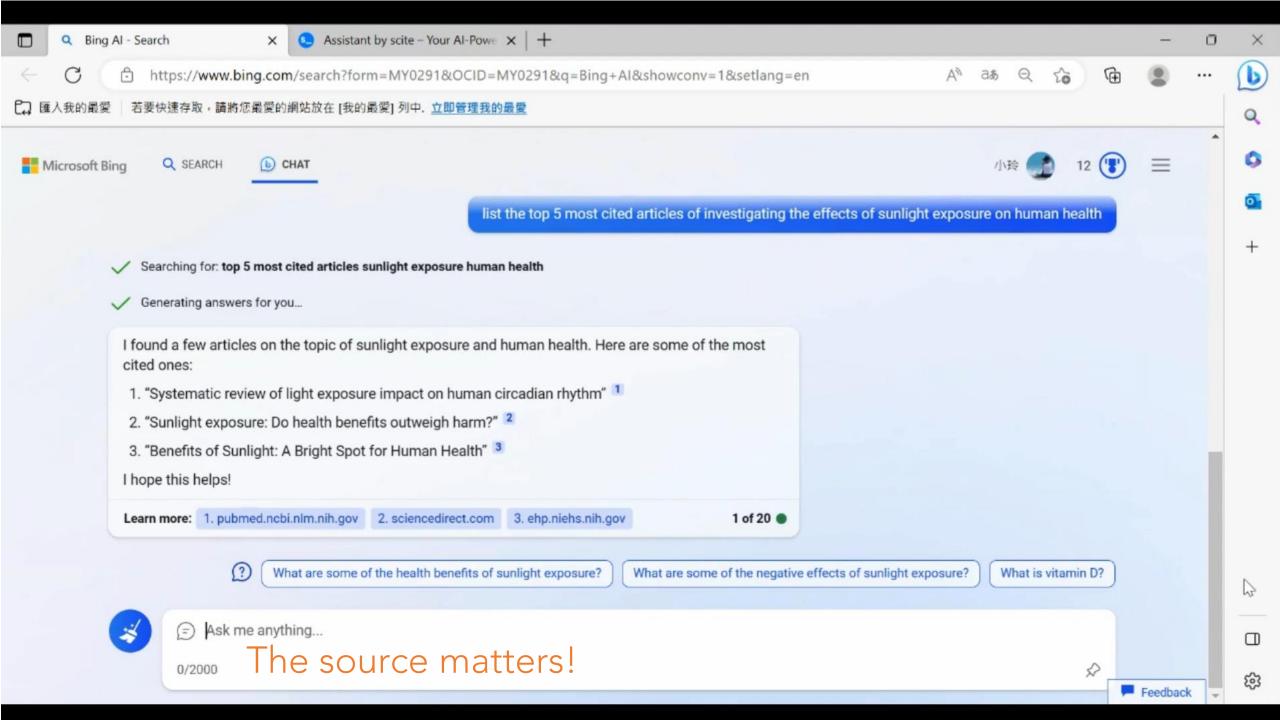
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Feedbac

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A.I.-aided applications for Research Support



SEARCH: Literature discovery ASSESS: Literature review

Lysyl Oxidase Is Essential for Hypoxia-Induced Metastasis @

Janine T. Erler¹, Kevin L. Bennewith², Monica Nicolau³, Nadja Dornhöfer⁴, Christina S. Kong⁵, Quynh-Thu Le⁶, Jen-Tsan Ashley Chi⁷, Stefanie S. Jeffrey⁸, Amato J. Giaccia⁹

Abstract: Metastasis is a multistep process responsible for most cancer deaths, and it can be influenced by both the immediate microenvironment (cell-cell or cell-matrix interactions) and the extended tumour microenvironment (for example vascularization). Hypoxia (low oxygen) is clinically associated with metastasis and poor patient outcome, although the underlying processes remain unclear. Microarray studies have shown the expression of lysyl oxidase (LOX) to be elevated in hypoxic human tumour cells. Paradoxically, LO...

Expand abstract 🗸

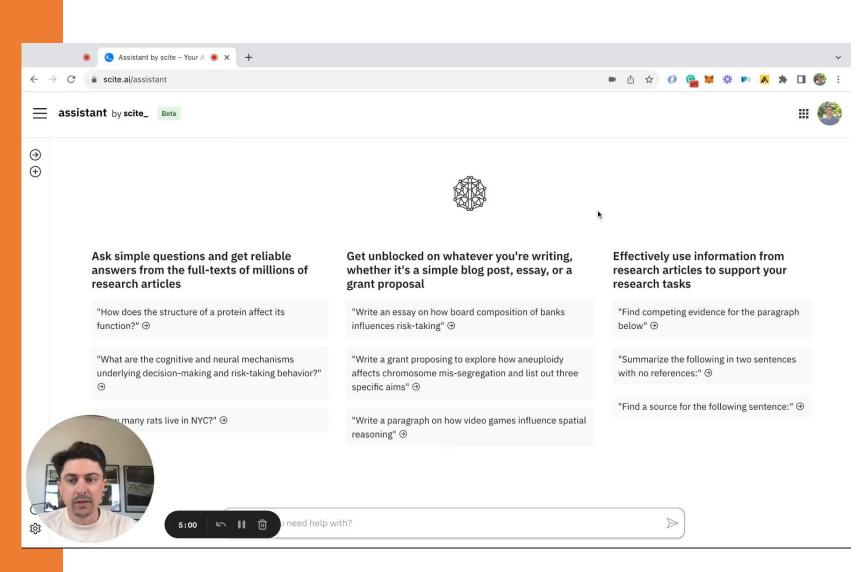
Editorial notices 🗸

Search citation statements	Dited by 1,130	6 publications (1,204 citation statements)	
Context, author(s), titl Q			
Order By: Relevance ~	Paper Section: Results	"Treatment of established tumors with βAPN (100 mg/kg/BW ip qd) reduced significant collagen cross-linking in the tumor ECM (Supplementary Figure S2). In contrast to previous studies that reported a solid reduction of growth in various tumor models [22.– 25], treatment with βAPN reduced tumor growth only in the 4T1 model, while three models (MT6, EMT6, and E0771) did not respond with a change in growth rate and growth of LLC tumors was even strongly increased (Fig. 3a)"	Ç
Paper Sections ①		(2) contrasting (Confidence: 99%) flag classification	
Intro 208	Paper Section: Discussion	"Previous studies have reported a solid and consistent anti-tumor effect of LOX(L) inhibition in a variety of different tumor models [23–25]. Baker et al have demonstrated that the proliferative effect of lysyl oxidases is caused by increased tissue stiffness and subsequently enhanced FAK signaling [28]"	ſĊ
Methods 26		O mentioning (Confidence: 90%) flag classification	
Results 93		LOX-catalyzed Collagen Stabilization Is a Proximal Cause for Intrinsic Resistance to Chemotherapy	
Discussion 292		Rossow, Veitl, Vorlová <u>et al.</u> 2018 Oncogene	
Other sections 498			
		View full text Add to dashboard	
Citation Types ①			
✓ Supporting	Paper Section:	"Opposite to all other survival analyses, this effect was predominantely due to ER positive cases, with only a	ſ
🖌 Mentioning 🥝 1,131	Discussion	weak trend in ER negative patients. In contrast to a previous report, LOX expression was not significantly associated with the overall survival, which may, at least in part, be due to the smaller number of patients in the	ų
Contrasting 🕜 10		present study [3]. The prognostic power of LOX expression was more pronounced with respect to metastasis- free survival than overall survival also in that previous study [3]"	
🖌 Unclassified 🔿 17		 contrasting (Confidence: 99%) <u>Itag classification</u> 	
Year Published	Paper Section: Discussion	"In contrast to a previous report, LOX expression was not significantly associated with the overall survival, which may, at least in part, be due to the smaller number of patients in the present study [3]. The prognostic power of LOX expression was more pronounced with respect to metastasis-free survival than overall survival also in that previous study [3]. Finally, in multivariable Cox proportional hazards regression analyses of the DFS and MFS of the variables LOX expression, G473A genotype and ER status, LOX expression was a potent independent	Ċ
∎ _■ ≝≈≈≡≈ <mark>≣</mark> ≝≈≅ _■		prognostic parameter (Table S3 and S4; see below)"	

A.I.-aided applications for Research Support

Using prompts to

- Finding evidence on certain topics
- Finding creditable sources
- Drafting introduction & grant proposals
- Get familiar with new topics



ChatGPT 4

list the top 5 most supported articles of investigating the effects of sunlight exposure on human health

- I'm currently facing difficulties accessing search results. However, I can suggest a general approach to find highly regarded articles on the effects of sunlight exposure on human health:
 - Google Scholar: Search for articles using relevant keywords like "sunlight exposure health effects." Filter results by citation count to find the most referenced and presumably impactful papers.
 - PubMed: This database is excellent for medical and life sciences research. You can use similar search terms and sort results by "Best Match" or look at review articles, which often summarize the most supported research.
 - Web of Science: If you have access, this platform allows for refined searches and you can sort by times cited.
 - ResearchGate: Often researchers share their publications here, and you can see real-time statistics on engagement and citations.
 - Academic Journals: Journals like "The Journal of Investigative Dermatology" or "Photochemistry and Photobiology" of publish research on the effects of UV radiation and sunlight on human health.

Gemini

- list the top 5 most supported articles of investigating the effects of sunlight exposure on human health
- Unfortunately, I can't directly access and rank research articles based on citations.
 However, I can help you find some highly-regarded resources on the topic. Here's what you can do:
 - Search Scholar by Google: This platform allows you to search for scholarly articles and sort them by relevance or citations. Use keywords like "sunlight exposure effects human health" and refine your search based on publication date or specific aspects (e.g., Vitamin D synthesis).
 - Review Articles: Look for review articles that summarize current research on sunlight and health. These articles often cite the most relevant studies in the field. You can find review articles in major medical journals like the New England Journal of Medicine or The Lancet.
 - 3. National Institutes of Health (NIH) Website: The NIH website provides reliable

0	Max words in prompt?	2	A 500-year history of forest	ires 🗙 🔞 Yo	ur Schol	arcy library			+	
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0	Stony Point Consu	👌 Today / Me	🕄 Web Importer 📒 其他	書飯						
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Der Link

Home > Regional Environmental Change > Article

Original Article | Open Access | Published: 13 November 2020

A 500-year history of forest fires in Sala area, central Sweden, shows the earliest known onset of fire suppression in Scandinavia

Guilherme Alexandre Stecher Justiniano Pinto, Mats Niklasson, Nina Ryzhkova & Igor Drobyshev

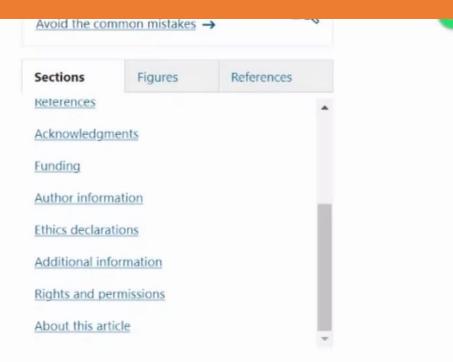
Regional Environmental Change 20, Article number: 130 (2020) Cite this article

2281 Accesses 7 Citations 4 Altmetric Metrics

Abstract

The Sala fire in the Västmanland County of central Sweden that burned about 14,000 ha in 2014 has been the largest fire recorded in the modern history of Sweden. To understand the long-term fire history of this area, we dendrochronologically dated fire scars on Scots pine (*Pinus sylvestris* L.) trees (live and deadwood) to reconstruct the fire cycle and fire occurrence in the area affected by the 2014 fire. We identified 64 fire years, using a total of 378 pine samples. The earliest reconstructed fire dated back to 1113 AD. The spatial reconstruction extended over the period of 1480–2018 AD. Lower levels of fire activity (fire cycle, FC = 43

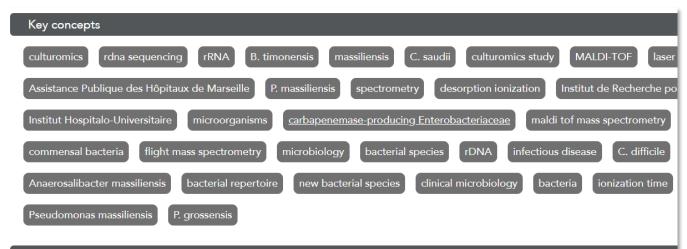
Get help from AI to assist in comprehending a paper



A.I.-aided applications for Research Support

scholarcy

COMPREHEND: Literature review AUTHOR: Manuscript writing PROMOTE: Research outreach



Abstract

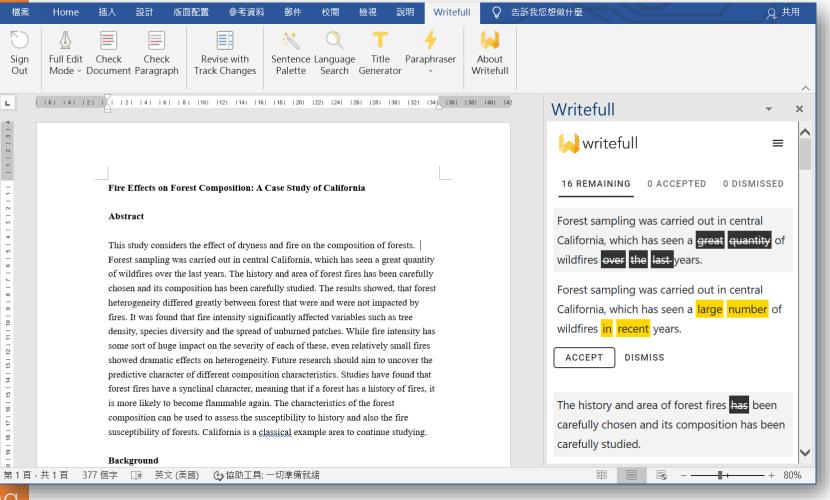
Culturomics has permitted discovery of hundreds of new bacterial species isolated from the human microbiome. Profiles generated desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry have been added to the mass spectrometer database used in cli We retrospectively collected raw data from MALDI-TOF mass spectrometry used routinely in our laboratory in Marseille, France, durir and analyzed 16S rDNA sequencing results from misidentified strains. During the study period, 744 species were identified from clin were species first isolated from culturomics. This collection involved 105 clinical specimens, accounting for 98 patients. In 64 cases, is considered clinically relevant. MALDITOF mass spectrometry was able to identify the species in 95.2% of the 105 specimens. While of the bacterial repertoire associated with humans, culturomics studies also enlarge the spectrum of prokaryotes involved in infectiou:

Scholarcy highlights

- Culturomics has permitted discovery of hundreds of new bacterial species isolated from the human microbiome
- The creation of new spectra enabled us to increment our MALDI-TOF mass spectrometry database used for clinical microk
 of bacterial species first isolated as a part of culturomics studies and improving the accuracy of diagnosis of infectious dise
- We identified 744 unique bacterial species correctly using MALDI-TOF mass spectrometry
- Routine Identification of Species Isolated as Part of Culturomics Studies Among the 351,937 bacterial identifications perfors study period, we identified species first isolated from culturomics studies in 105 clinical specimens, accounting for 98 patie
- This work constitutes the proof of concept that exploration of the repertoire of commensal bacteria enables identification in clinical microbiology
- Identification of 9 strains using 16S rDNA sequencing, accounting for 5 species, confirmed the initial recognition by MALD (Table 2). These results strengthen our belief that identifying commensal microbes provides a valuable contribution to clini by the decrease in the number of unidentified colonies by MALDI-TOF mass spectrometry over time (Figure)

A.I.-aided applications for Research Support





AUTHOR: Manuscript proofreading

Academic English Proofreading and Suggestion using Deep Learning Model

Proofreading the manuscript

Academic writing guidance

One-click language checks

Watch the video here



Automate your scientific writing.

Original title: A 500-year history of forest fires in Sala area, ce earliest known onset of fire suppression in Scandinavia

Generate a new title for the published paper

ChatGPT generated title:

Reconstructing the fire history of Sala, Swedan: early onset of fire suppression and its impact on fire occurrence and climate drivers

WriteFull generated title: Dendrochronological analysis of the Sala fire in the Vastmandland Country, Central Swedan`

Result

Original title:

A 500-year history of forest fires in Sala area, central Swedan, shows the earliest known onset of fire suppression in Scandinavia

General Method

ChatGPT generated title: Reconstructing the fire history of Sala, Swedan: early onset of fire suppression and its impact on fire occurrence and climate drivers

WriteFull generated title:

Specific Method

Dendrochronological analysis of the Sala fire in the Vastmandland Country, Central Swedan` Original title: A stochastic numerical approach for a class of perturbed system

Generate a new title for another paper

ChatGPT generated title:

Neuro-evolutionary scheme for solving singularly perturbed boundary value problems: utilizing feed-forward artificial neural networks and particle swarm optimization with interior-point algorithm

WriteFull generated title:

A neuro-evolutionary method for solving singular singularly perturbed boundary value problems

Method

Original title: A stochastic numerical approach for a class of singular singularly perturbed system

ChatGPT generated title:

Solving Something

Neuro-evolutionary scheme for solving singularly perturbed boundary value problems: utilizing feed-forward artificial neural networks and particle swarm optimization with interior-point algorithm

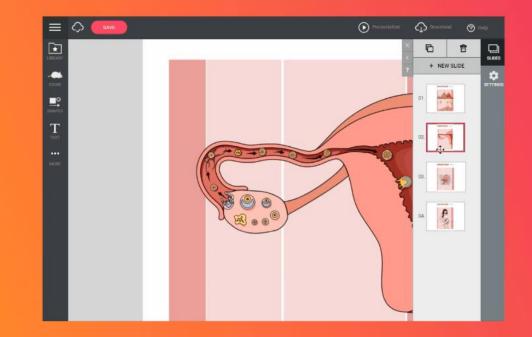
WriteFull generated title:

Method-Solving a Problem

A neuro-evolutionary method for solving singular singularly perturbed boundary value problems

A.I.-aided applications for Research Support

A free infographic maker for medical doctors and scientists.





ILLUSTRATE: Graphical abstract PROMOTE: Research outreach

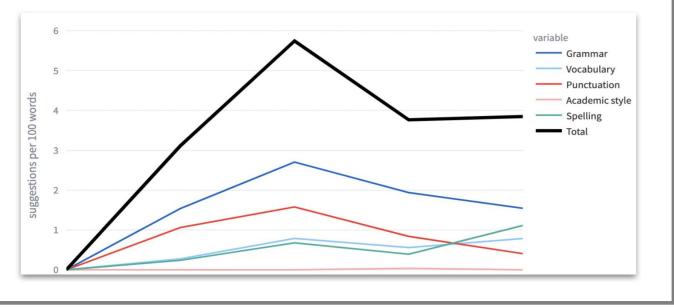


Things to take note about using AI tools

- 1. Check the sources > Literature review
- 2. Understand your preferred workflow > Comprehending a paper
- 3. Take note of the machine learning model as the tool depends on its training > Generating options

Things to take note about

- 1. Check the sources > Literature r
- 2. Understand your preferred w
- 3. Take note of the machin training > Generating



- 4. Look for analytics > Helping users to learn and to make a better decision
- 5. Check the T&C > Privacy
- 6. Understand the difference between Al-generated contents versus humanwritten contents > Detector
- 7. Check the new policies > About using AI tools, specifically ChatGPT in publishing or acknowledgement

Dashboard - monitor academic language skill

		Can they use your data?
Things to take note about using AI tools	Google Docs	yes
	Microsoft Editor	yes
 Check the sources > Literature review 	Grammarly	yes
2. Understand your preferred workflow > Comprehend	Writefull	no
3. Take note of the machine learning model as the	Quillbot	yes
training > Generating options	DeepL	yes for Free, no for Pro
4. Look for analytics > Helping user	ChatGPT / OpenAl	yes
5 Check the $T_{8}C > Privacy$		

- 5. Check the T&C > Privacy
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- 7. Check the new policies > About using AI tools, specifically ChatGPT in publishing or acknowledgement

Things to take note about using AI tools

1.	Check the <mark>sources</mark> > Literature review	
2.	Understand your preferred workflow > Comp	-
3.	Take note of the machine learning model as t training > Generating options	 Creativity Cohesion and organization Accuracy
4.	Look for analytics > Helping users to l	5. Emotional intelligence
5.	Check the T&C > Privacy	

- 6. Understand the difference between Al-generated contents versus humanwritten contents > Detector
- 7. Check the new policies > About using AI tools, specifically ChatGPT in publishing or acknowledgement

Things to take note about using AI

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- 3. Take note of the machine learning model as the training > Generating options
- 4. Look for analytics > Helping users to learn and
- 5. Check the T&C > Privacy
- 6. Understand the difference betwee written contents > Detector
- Check the new policies > About using AI tools publishing or acknowledgement

The rat with the big balls and the enormous penis – how Frontiers published a paper with botched AIgenerated images



A <u>review article</u> with some obviously fake and non-scientific illustrations created by Artificial Intelligence (AI) was the talk on X (Twitter) today.

February 15, 2024 Artificial Intelligence, Easy Journals, Image Concerns, Peer Review Fail Frontiers, Journals, Midlourney, peer review.

publishing, rat, research, science, stem cells, testes The figures in the paper were generated by the AI tool Midjourney, which generated some pretty, but nonsensical, illustrations with unreadable text.

It appears that neither the editor nor the two peer reviewers looked at the figures at all. The paper was peer-reviewed within a couple of weeks and published two days ago.

Dear readers, today I present you: the rat with the enormous family jewels and the dielocttal stem ells.

Dr CJ Houldcroft 💥 @DrCJ Houldcroft - 3h Erm, how did Figure 1 get past a peer reviewer?! frontiersin.org/articles/10.33... H/T @aero_anna



Tweet by Dr. Houldcroft discussing Figure 1 from the paper. Source: https://twitter.com/DrCJ_Houldcroft/status/1758111493181108363

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16:15	End



Practical:

- Should ChatGPT the right tool to use when conducting following research tasks, and why?
 - Literature review
 - Reference checking and formatting
 - Proofreading unpublished manuscripts
 - Plagiarism checking
 - Data analysis
 - Questionnaire design
 - Graphic design

Figure 1: When is it safe to use ChatGPT?⁵

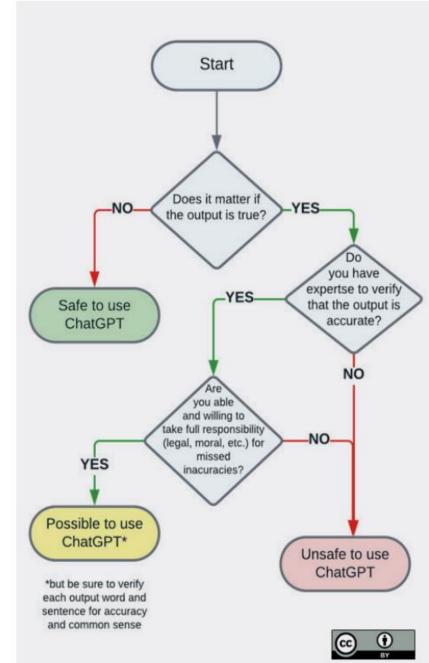


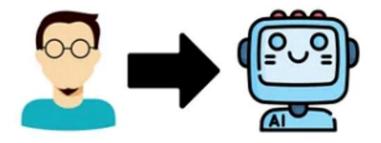


Figure 3: Possible uses of ChatGPT in the research process

Source: ChatGPT and Artificial Intelligence in Higher Education Quick Start Guide

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14:00 14:50 15:10 15:45	Introduction to A.I. in Research Workflow Hands-on & break A.I. & Academic Integrity Discussion: "Empowering librarians for A.I. adoption!"

Automation

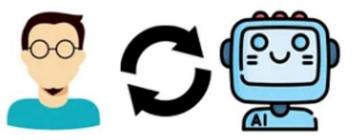


Replace human intelligence with artificial intelligence.

Three risks of overreliance on AI

- 1. Diminish critical thinking
- 2. Originality issues and falsification
- 3. Biases and misinformation

Augmentation



Augment human intelligence with artificial intelligence.

Three human constraints without AI

- 1. Limited lifespan
- 2. Learning rate
- 3. Social network sizes

Source: https://medium.com/aixdesign/automation-vs-augmentation-%EF%B8%8F-in-ai-designing-mixedinitiative-user-interfaces-82ecf70dfa26

Google search exposes academics using ChatGPT in research papers

Updated on: November 15, 2023 12:53 PM



Paulina Okunytė, Journalist

7. FUTURE SCOPE

As an AI language model, I cannot predict the future. However, here are a few pc topology optimization of steering knuckles:

1. Integration with additive manufacturing technologies: Topology optimization additive manufacturing (3D printing) technologies. In the future, the optimiza integrated with various manufacturing processes to produce the optimized st directly.

IJFMR23022503

Volume 5, Issue 2, March-April 2023

Results and discusses the performance of proposed methodology

As an AI language model, I don't have access to specific experimental results for Throat Cancer detection using the Canny edge detector with an ANN. However, I can provide you with a general discussion of the expected performance and potential outcomes based on similar approaches and techniques in medical image analysis.

The performance of Throat Cancer detection using the Canny edge detector with an ANN can be evaluated based on various metrics such as accuracy, sensitivity, specificity, precision, F1-score, and the area under the ROC curve (AUC-ROC).

10544

Eur. Chem. Bull. 2023, 12(Special Issue 4), 10539-10549

"Throat Cancer detection using canny edge detector with ANN" Research published in European Chemical Bulletin, 12(4):10539-10549 | Image by Cybernews

Retraction Watch

Tracking retractions as a window into the scientific process

PAGES

How you can support Retraction Watch

Invite us to speak

Meet the Retraction Watch staff

About Adam Marcus

About Ivan Oransky

Our Editorial Independence Policy

Papers and peer reviews with evidence of ChatGPT writing

Papers that cite Retraction Watch

Privacy policy

Retracted coronavirus (COVID-19) papers

Retraction Watch Database User Guide

Retraction Watch Database User Guide Appendix A: Fields

Retraction Watch Database User Guide Appendix B: Reasons

Journal taking 'corrective actions' after learning author used ChatGPT to update references

An interdisciplinary journal says it will take "corrective actions" on a paper following a thorough investigation on a paper for which one author used ChatGPT to update the references.



Krithika Srinivasan, an editor of *Environment and Planning E: Nature* <u>and Space</u> and a geographer at the University of Edinburgh, in Scotland, confirmed to *Retraction Watch* her journal is finalizing what actions need to be taken. After the probe concluded, Srinivasan says she submitted her recommendations to Sage, the journal's publisher, who will take actions in line with their policy.

What's clear from the probe, she says, is that "none of the incorrect references in this paper were 'fabricated' in the sense of being made up or false." She notes that the original manuscript was submitted to the journal with the correct references but "the errors were generated when one of the other authors (without the knowledge of the submitting author) used chatGPT (instead of regular referencing software) to insert the citations and reference list."

https://retractionwatch.com/2024/05/20/journal-taking-corrective-actions-after-learning-author-used-chatgpt-to-update-references/

Science

SCIENCEINSIDER SCIENTIFIC COMMUNITY

Science funding agencies say no to using AI for peer review

Concerns include confidentiality, accuracy, and "originality of thought"

14 JUL 2023 · 4:25 PM ET · BY JOCELYN KAISER

NIH and other funding agencies, however, are putting the kibosh on the approach. On 23 June, NIH <u>banned</u> the use of online generative AI tools like ChatGPT "for analyzing and formulating peer-review critiques"—likely spurred in part by a <u>letter</u> from Siegle, who is at the University of Pittsburgh, and colleagues. After the conference they warned the agency that allowing ChatGPT to write grant reviews is "a dangerous precedent." In a similar move, the Australian Research Council (ARC) on 7 July <u>banned</u> generative AI for peer review after learning of reviews apparently written by ChatGPT.

Other agencies are also developing a response. The U.S. National Science Foundation has formed an internal working group to look at whether there may be appropriate uses of AI as part of the merit review process, and if so what "guardrails" may be needed, a spokesperson says. And the European Research Council expects to discuss AI for both writing and evaluating proposals.



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What constitutes cheating?

- 1. Plagiarism
- 2. Fabrication
- 3. Falsification
- 4. Misrepresentation
- 5. Data Theft

What constitutes cheating?



Replace human intelligence with artificial intelligence.

Risk of Al-generated work

.... let say you present such work in a conference

Your audience will ask about

- Authenticity
- Originality
- Citations & References
- Reproducibility

FUTURE PERFECT SCIENCE PUBLIC HEALTH

Who fakes cancer research? Apparently, lots of people.

Faked cancer data is the latest sign of science's fraud problem. By Kelsey Piper | Mar 1, 2024, 9:00am EST

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Boston Globe via Getty Images

Kelsey Piper is a senior writer at Future Perfect, Vox's effective altruism-inspired section on the world's biggest challenges. She explores wide-ranging topics like climate change, artificial intelligence, vaccine development, and factory farms, and also writes the Future Perfect newsletter.



a new, dangerous phase Last summer, I covered the saga of Harvard Business It's impossible to be neutral School's Francesca Gino, who was credibly accused of about Taylor Swift flagrantly fabricating data in at least four of her published Finding the best ways to do good. studies. She was caught when some data sleuths on the 3 internet - investigating research misconduct in their free

Take a mental break with the newest Vox crossword time - found discrepancies in the data for her papers and investigated further. Tell the truth about Biden's

They eventually raised their concerns with Harvard, which investigated and ultimately requested retractions of the papers in question (Gino filed a lawsuit against Harvard an Most Read

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Israel and Iran's conflict enters

Good citation practices with AI tools

- Cite as you write
- Cite the originals or primary sources
- Cite regardless it's paraphrasing or direct quote
- Cite your own work, appropriately
- Attribute to all types of media used (images, graphs, tables, audios, and videos)
- Implement disclaimers
- Understand the fair use doctrine
- And always keep a list of reference list, and stay updated!

Starting to use disclaimers



NOVEMBER 4, 2022 Based on true events: docudramas, disclaimers, and defamation By: Melissa Bergmann, Senior Editor In recent years, the "docudrama" genre has grown in popularity. A docudrama is a television series or film featuring dramatized depictions of real events. This genre includes series such as "Dahmer," "Inventing Anna," and "The Act." Coupled with the recent growth in popularity in this genre is growth in defamation lawsuits filed by the real-life individuals depicted in these movies and television shows.

of the Lakers Dynasty." The series received rave reviews from audiences and critics, but actual members of the 1980's Los Angeles Lakers basketball team, nicknamed the "Showtime Lakers," are less than impressed. In a letter sent to HBO by his attorney, Jerry West (former Lakers basketball player, coach, and general manager) called his depiction in "Winning Time" a "baseless and malicious assault on [his] character." While West has yet to file suit against **HBO** the later alludes to provide later later in define under the suit against

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Example: Dr. Pat Jones works with another faculty member as part of his teaching at the local university as an approved outside activity. He and the other faculty member jointly prepare an article for publication in a scientific journal. He may use his official Government title but it **must** be accompanied by the following **disclaimer**, prominently placed so readers see it: **Dr. Jones contributed to this article in his personal capacity. The views expressed are his own and do not necessarily represent the views of the National Institutes of Health or the United States Government.**

AAAS (Science)

The *Science* journals have now adapted our editorial policies on <u>image and text integrity</u> to include the following:

Artificial intelligence (AI). AI-assisted technologies [such as large language models (LLMs), chatbots, and image creators] do not meet the Science journals' criteria for authorship and therefore may not be listed as authors or co-authors, nor may sources cited in Science journal content be authored or coauthored by AI tools. Authors who use AI-assisted technologies as components of their research study or as aids in the writing or presentation of the manuscript should note this in the cover letter and in the acknowledgments section of the manuscript. Detailed information should be provided in the methods section: The full prompt used in the production of the work, as well as the AI tool and its version, should be disclosed. Authors are accountable for the accuracy of the work and for ensuring that there is no plagiarism. They must also ensure that all sources are appropriately cited and should carefully review the work to guard against bias that may be introduced by AI. Editors may decline to move forward with manuscripts if AI is used inappropriately. Reviewers may not use AI technology in generating or writing their reviews because this could breach the confidentiality of the manuscript.

AI-generated images and other multimedia are not permitted in the Science journals without explicit permission from the editors. Exceptions may be granted in certain situations—e.g., for images and/or videos in manuscripts specifically about AI and/or machine learning. Such exceptions will be evaluated on a case-by-case basis and should be disclosed at the time of submission. The Science journals recognize that this area is rapidly developing, and our position on AI-generated multimedia may change with the evolution of copyright law and industry standards on ethical use.

https://www.science.org/content/blog-post/change-policy-use-generative-ai-and-large-language-models

Journal of Medical Internet Research

Guiding principle Author's responsibilities Accountability • Be accountable for the content of AI-generated comments submitted in the manuscript. For example, AI-generated statements should have accompanying citations where appropriate and be fact-checked for accuracy, and generated references should be checked to ensure that they have not been hallucinated. • Do not list generative AI as a coauthor. Transparency • If generative AI was a part of the study design, include appropriate methodological detail in the Methods section of a manuscript. Describe how generative AI was used in the conduct of the scientific work in sufficient detail for a peer-reviewed publication. • If generative AI was used to generate manuscript content, then state clearly in the Acknowledgments section how and where generative AI was used. This may include but is not limited to writing or creating text, figures, or other content for scientific publication. Disclose which generative AI tool was used by attesting to its use, such as stating, "I conducted this review with the assistance of [ProductName, Version, from CompanyName, Year]." • If no generative AI was used, state in the cover letter of the submission the following: "The author(s) attest that there was no use of generative artificial intelligence (AI) technology in the generation of text, figures, or other informational content of this manuscript." Confidentiality • Authors use generative AI at their own risk. Understanding the terms of use of any generative AI is recommended to	Table 1. Author's responsibilities when using generative artificial intelligence (AI) in preparing a manuscript.			
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understand how the content of prompts may be reused by the generative AI and the company that created it.	Confidentiality	• Authors use generative AI at their own risk. Understanding the terms of use of any generative AI is recommended to understand how the content of prompts may be reused by the generative AI and the company that created it.		

https://support.jmir.org/hc/en-us/articles/13387268671771-Do-you-allow-the-use-of-ChatGPT-or-other-generative-language-models-and-how-should-this-be-reported

Don't do the following

- Claiming AI-generated work as your own
- Rephrasing existing contents
- Concealing Al's role
- Failing to cite or citing incorrectly

What to do when accused of AI cheating

- Stay calm and re-check all the facts and evidences
- Prove yourself by focusing on your best practices

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' 2 min. British pop phenom Ed Sheeran did not plagiarize Marvin Gaye's "Let's Get It On" when composing his 2014 hit "Thinking Out Loud," a US jury ruled Thursday, May 4. The English musician said he was "very happy" with the decision but "unbelievably frustrated that baseless claims like this" even make it to court.

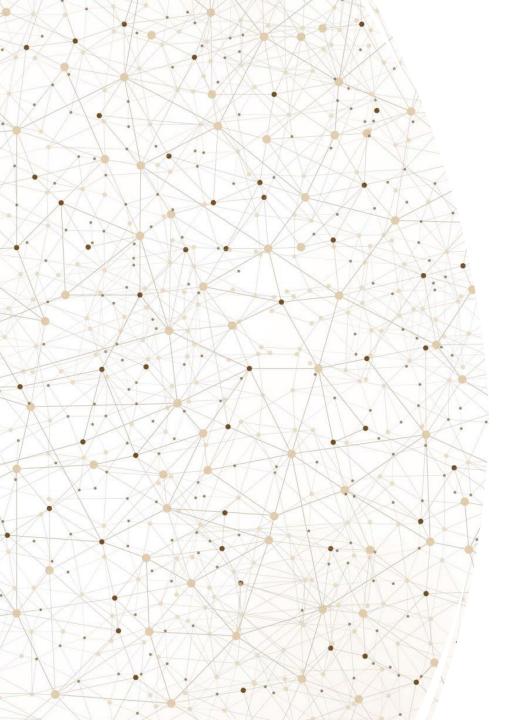




Le Monde.fr https://www.lemonde.fr > Culture > Music

Ed Sheeran wins plagiarism lawsuit over his song 'Thinking ...

Time	
13:30	Opening & Unlocking the World of A.I.
13:50	Hands-on
14:00	Introduction to A.I. in Research Workflow
14:50	Hands-on & break
15:10	A.I. & Academic Integrity
15:45	Discussion: "Empowering librarians for A.I. adoption!"
16:15	End



Discussion

Enabling librarians for A.I. adoption

- What's the difference between A.I. adoption
 v.s. A.I. adaptation
- 2. What's your biggest challenge in using A.I. to support research?



Wrap Up



Feel free to fill in the Feedback form!