



PERAN PEMIMPIN DALAM MENGHADAPI TANTANGAN INOVASI PENGELOLAAN INTELEGENSI ARTIFISIAL BAGI PROSES AKADEMIK DAN RISET DAN DISKUSI

PROF. IMAN HARYMAWAN, PH,D

AI DILEMMA



HOW ABOUT ETHICAL CONCERN?



Kontroversi AI buat Bikin Tugas Kuliah, Ini Kata Dosen, Mahasiswa, & Peneliti

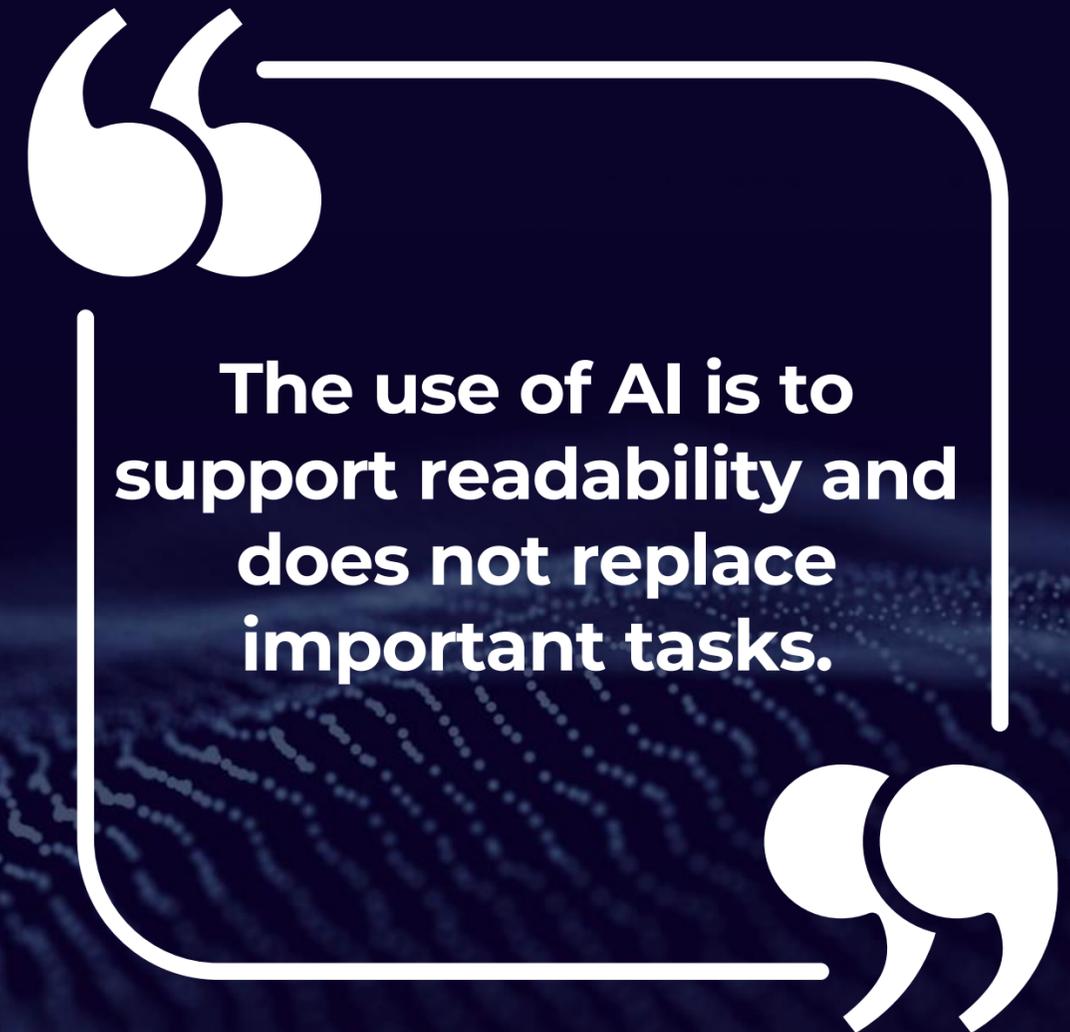
Trisna Wulandari - detikEdu

Maraknya Fenomena AI dalam Pembelajaran, Dosen UM Surabaya Ungkap Soal Shock Future

Polemik ChatGPT: Bagaimana Perguruan Tinggi Harus Bersikap?

February 6, 2023 11:23 am

<https://www.detik.com/edu/perguruan-tinggi/d-6521413/kontroversi-ai-buat-bikin-tugas-kuliah-ini-kata-dosen-mahasiswa-peneliti>
<https://www.um-surabaya.ac.id/article/maraknya-fenomena-ai-dalam-pembelajaran-dosen-um-surabaya-ungkap-soal-shock-future>
<https://uia.fisipol.ugm.ac.id/polemik-chatgpt-bagaimana-perguruan-tinggi-harus-bersikap/>



ADVANTAGE AND DISADVANTAGE OF AI

“The rise of powerful AI will be either the best or the worst thing ever to happen to humanity. We do not yet know which”

-Stephen Hawking-



Makridakis, S. (2017). The forthcoming Artificial Intelligence (AI) revolution: Its impact on society and firms. *Futures*, 90, 46–60. <https://doi.org/10.1016/j.futures.2017.03.006>

ADVANTAGE OF AI

Eliminates human

error and risk AI implementation diminishes human error and boosts safety by managing repetitive or hazardous tasks, guaranteeing consistent quality and minimizing risks. It also alleviates the risk of unintended plagiarism, enabling students to prioritize learning and academic development devoid of errors or ethical concerns.

24/7 availability

AI programs are available at all times, whereas humans work 8 hours a day. This can help to produce more and provide a better experience than humans could provide alone.

Unbiased decision making

AI trained with unbiased data and tested for bias, offers impartial course and career recommendations to students based solely on their interests, skills, and aptitudes, eliminating biases present in traditional guidance counseling.

Repetitive jobs

AI relieves humans from repetitive tasks, like grading homework, freeing teachers to foster student creativity and critical thinking through personalized feedback and engaging discussions.

Cost reduction

AI's ability to automate repetitive tasks, saving time and resources previously spent on manual labor, ultimately lowering operational costs for educational institutions while enhancing student learning experiences.

Data acquisition and analysis

AI algorithms processing vast volumes of complex data beyond human capacity, making it accessible and usable for analysis.

Tableau from Salesforce. (2024). *What are the advantages and disadvantages of artificial intelligence (AI)?* <https://www.tableau.com/data-insights/ai/advantages-disadvantages#:~:text=The advantages range from streamlining,lack of emotion and creativity.>

DISADVANTAGE OF AI

Costly implementation

The implementation and training costs for workers to adopt AI can be substantial. Furthermore, AI remains a machine susceptible to depreciation over time, thus necessitating regular evaluation by scientists to ensure its relevance and alignment with human needs

Reduced jobs for humans

The ability of AI to perform repetitive tasks has replaced many workers who have unfortunately lost their jobs.

Lack of emotion and creativity

AI has limitations in creativity, emotional understanding, and ethical considerations, thus it cannot generate entirely original concepts when creating new ideas. Additionally, AI struggles to consider the emotional impact in decision-making, potentially leading to unethical outcomes. However, there are now AI systems capable of generating artwork based on artists' ideas.

Ethical problems

Data processing by AI easily recognizes patterns, is followed by threats to data privacy. Therefore, it is necessary to increase awareness about data privacy, utilize security settings, actively engage in policy-making, and support ethical technology to address the privacy risks from the use of AI.

Tableau from Salesforce. (2024). What are the advantages and disadvantages of artificial intelligence (AI)?
<https://www.tableau.com/data-insights/ai/advantages-disadvantages#:~:text=The advantages range from streamlining,lack of emotion and creativity.>

AI TOOLS FOR ACADEMIC AND RESEARCH

Literature Search	Elicit	Connected Papers	Research Rabbit
Writing Assistants	Bard	WordTune	Poe
Grammar & Paraphrasing	Quillbot	Grammarly	PaperPal
Citations	Mendeley	JabRef	Zotero
Illustrations	BioRender	Canva	Diagrams
Data (Quantitatives)	Polymer	Akkio	MonkeyLearn
Data (Qualitatives)	ATLAS.ti	Lumivero	Otter
Presentation	Tome	Prezi	Slideal
Excel	Excellly-AI	AJELIX	Alexcelbot

AI Chatbot	ChatGPT	Gemini	Bing AI	Claude.ai
Video Creation	Runway	HeyGen	Veed.io	Pictory
Images	Midjourney	DALL-E 3	Leonardo.ai	Firefly
Presentation	Tome	Decktopus	SlidesAI	Beautiful.ai
Research	Harpa	Perplexity	Glasp	ChatPDF
Prompt Writing	G-Prompter	OctoAI	Snack Prompt	PromptPal
Productivity	Taskade	Audio Pen	Notion AI	Xembly
Writing	Copy.ai	Grammarly	Jasper AI	Wordtune
Job search	Careerflow.ai			



PROMPT WRITING FOR ACADEMIC AND RESEARCH

Prompt Writing is a writing technique used to trigger creativity and generate ideas spontaneously.



Such as a word, phrase, image, or question to serve as inspiration for writing.



The goal is to initiate the writing process without barriers or self-judgment,

allowing new ideas to emerge more freely. This technique is often used in creative writing exercises, brainstorming sessions, or as a means to overcome writer's block.



AI TOOLS FOR ACADEMIC

GPT-4 (Presentation and Slide)



ChatGPT

Presentation and Slide...

Scholar GPT

Explore GPTs

Today

AI Reduces Human Error

Controller & Auditor Roles

AI Co-Author Ethical Concerns

Controller & Auditor: Management

AI Research: Latest Trends

CEO Characteristics Effect Analysis

IT Governance Literature

Pasokan Air Gedung Perkantoran

Interpretasi R² dalam SEM-PLS

Survei Kepuasan Pelanggan

Include tables in revision.

Pembagian Kelompok Acak

Umur Rektor: Batasan dan Kriteria

Add Team workspace
Collaborate on a Team plan

CPEBR Universitas Airlangga

Presentation and Slides GPT

By slidesgpt.com

Powerful PowerPoint presentations. Exports to PowerPoint, Google Slides and PDF.

Make a presentation about the future of AI

Create an outline for Innovations in Laboratory Science...

Create a presentation on 2024 trends in banking

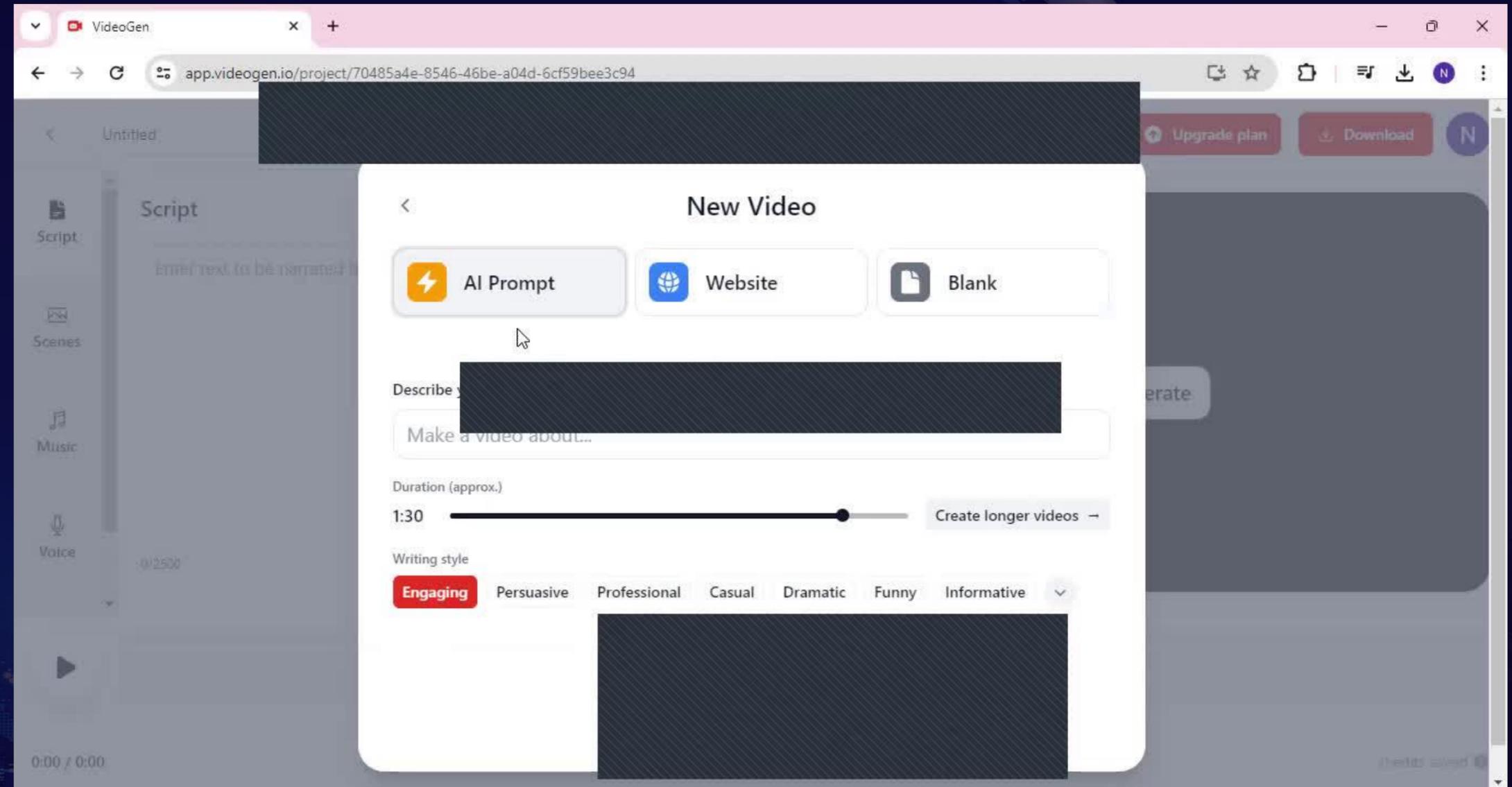
Tell me what you can do

Message Presentation and Slides GPT

ChatGPT can make mistakes. Consider checking important information.

AI TOOLS FOR ACADEMIC

VideoGen
(Generate video from prompt)



WRITING ASSISTANT WITH RELEVANT CITATIONS



<https://jenni.ai/>

Jelaskan CEO from Reputable University Memp... [Upgrade](#) Export [AI Chat](#)

Jelaskan CEO from Reputable University Memperlemah Hubungan CEO Overseas Experience dan Sustainability Report Disclosure

CEO yang memiliki pengalaman internasional dianggap memiliki pengetahuan dan pemahaman yang lebih luas tentang praktik bisnisdan keberlanjutan yang berlaku di negara-negara lain (Solikhah et al., 2020). Namun, penelitian menunjukkan bahwa CEO yang berasal dari universitas ternama cenderung memperlemah hubungan antara pengalaman internasional CEO dan keterbukaan perusahaan dalam melaporkan laporan keberlanjutan (Ananda et al., 2021). Hal ini mungkin disebabkan oleh beberapa faktor (Solikhah et al., 2020). Pertama, CEO yang berasal dari universitas ternama mungkin memiliki orientasi yang lebih fokus pada keuntungan finansial daripada keberlanjutan (Victor & Dermawan, 2022). Kedua, CEO yang berasal dari universitas ternama mungkin memiliki tekanan yang lebih besar untuk mencapai target keuangan yang ditetapkan oleh pemegang saham dan analis keuangan. Ketiga, CEO yang berasal dari universitas ternama mungkin lebih terikat dengan praktik bisnis yang

Library

Sources Collections

Search sources...

- PERAN MEDIASI FINANCIAL BEHAVIOUR PADA FINANCIAL LITERACY TERHADAP FIRM PERFORMANCE
Augustin, Worokinasih, Darmawan
2020
[+ Cite](#) [View](#)
- Faktor-Faktor Yang Mempengaruhi Struktur Modal Pada Perusahaan Publik Di Sektor Manufaktur
Victor, Dermawan
2022
[+ Cite](#) [View](#)
- Legitimacy Theory Perspective on the Quality of Carbon Emission Disclosure: Case Study on Manufacturing Companie...
Solikhah, Yulianto, Suryarini
2020



<https://you.com/>

The screenshot displays the YOU AI interface. On the left is a dark sidebar with a 'New Chat' button (Ctrl K) and a user profile for 'Nur Aini Siti' on a 'Free Plan' with an 'Upgrade to YouPro' button. The main area features a heading: 'Use **Research Mode** to conduct in-depth analysis and comparisons for specific topic exploration'. Below this are four topic cards: 'Music to your ears' (Comparisons), 'Rainbows: Refraction or Reflection?' (Science), 'All the new tax rules in one place' (Finance), and 'Get Literate on Literature' (Education). At the bottom, a search bar 'Ask anything...' is shown with a '4/5' token limit. A red box highlights the model selection menu, which includes 'Smart', 'Genius', 'GPT-4', 'Research' (highlighted in purple), and 'Create'.





Smart Mode

N jelaskan CEO from reputable university memperlemah hubungan CEO overseas experience and sustainability report disclosure

CEO from Reputable University and Overseas Experience

Research suggests that the background and characteristics of a CEO can influence corporate decision-making and disclosure practices, including sustainability report disclosure. Specifically, two factors that have been studied in relation to sustainability report disclosure are the CEO's educational background and overseas experience.

CEO from Reputable University: One study found that CEOs with an educational background from reputable universities can have a positive impact on sustainability report disclosure. The study examined the relationship between ex-auditor CEOs and corporate social responsibility (CSR) disclosure in Indonesia. It found that the presence of ex-auditor CEOs, who often have a strong

Ask a follow-up...

Smart

⚡ Genius

⚡ GPT-4 ▾

⚡ Research

⚡ Create



YOU

Genius Mode

jelaskan CEO from reputable university memperlemah hubungan CEO overseas experience and sustainability report disclosure

Genius

Thinking

Writing

Answer

Introduction

The relationship between a CEO's educational background, specifically from a reputable university, their overseas experience, and the disclosure of sustainability reports can be complex and multifaceted.

Different Focus

A CEO from a reputable university may have a strong theoretical knowledge base, which can influence their leadership style and decision-making process. This could potentially lead to a de-emphasis on the importance of overseas experience, which is often seen as a valuable source of

Ask a follow-up...

⚡ 3/5

Smart

⚡ Genius

⚡ GPT-4

⚡ Research

⚡ Create





GPT-4 Mode

N jelaskan CEO from reputable university memperlemah hubungan CEO overseas experience and sustainability report disclosure

+ GPT-4 + You.com AI

CEO Background and Sustainability Report Disclosure

The background of a CEO, including their education and international experience, can significantly influence a company's sustainability report disclosure.

CEO from Reputable University: CEOs with an education from reputable universities often have a strong auditing background, which can influence corporate decision-making, including the decision to disclose Corporate Social Responsibility (CSR) information. This is particularly evident in Indonesia, where the presence of ex-auditor CEOs is increasing every year, and their influence on CSR disclosure is notable ¹.

CEO Overseas Experience: CEOs with international experience, including work or study abroad, can also play a crucial role in corporate strategic decision-making, especially in emerging economies. This overseas experience can enhance corporate social responsibility performance and the quality of social responsibility disclosure, as seen in Chinese manufacturing companies ².

Ask a follow-up...

⚡ 2/5

Smart

⚡ Genius

⚡ GPT-4

⚡ Research

⚡ Create



Advanced You.com capabilities with a custom AI model



Research Mode

CEO's International Experience and Corporate Social Responsibility (CSR) Disclosure

Influence of CEO's International Characteristics on CSR

CEOs with international work experience and educational backgrounds from abroad have been shown to positively influence CSR disclosure in firms. Specifically, in Indonesia, such characteristics are associated with increased CSR activity disclosure ¹. This effect is also significant and positive, suggesting that CEOs who have worked or studied overseas are more likely to engage in CSR disclosure ² ³. Moreover, CEOs with a background in humanities or social sciences are more inclined to participate in CSR activities ⁴.

Impact of CEO Power and Experience on CSR

The power held by a CEO can affect various aspects of sustainability reporting, including environmental, social, ethical, and governance dimensions, which in turn can influence corporate reputation ⁵. Additionally, the experience of CEOs abroad is a significant factor in CSR performance, with returnee CEOs showing better CSR outcomes ⁶. The length of the CEO's foreign experience is directly proportional to the quality of CSR performance, indicating that more extensive international exposure leads to better CSR practices ⁷.

jelaskan CEO from reputable university memperlemah hubungan CEO overseas experience dan sustainability report disclosure

Research

Researching ^

Searching for **Impact of CEO overseas experience on sustainability report disclosure**

Searching for **Relationship between CEO background and sustainability reporting in reputable universities**

Searching for **Influence of CEO characteristics on international sustainability reporting in higher education institutions**

✓ link.springer	✓ onlinelibrary.wiley	✓ onlinelibrary.wiley
✓ onlinelibrary.wiley	✓ virtusinterpress	✓ academia
✓ frontiersin	✓ mdpi	✓ mdpi
✓ ncbi.nlm.nih	✓ researchgate	✓ researchgate
✓ researchgate	✓ sciencedirect	

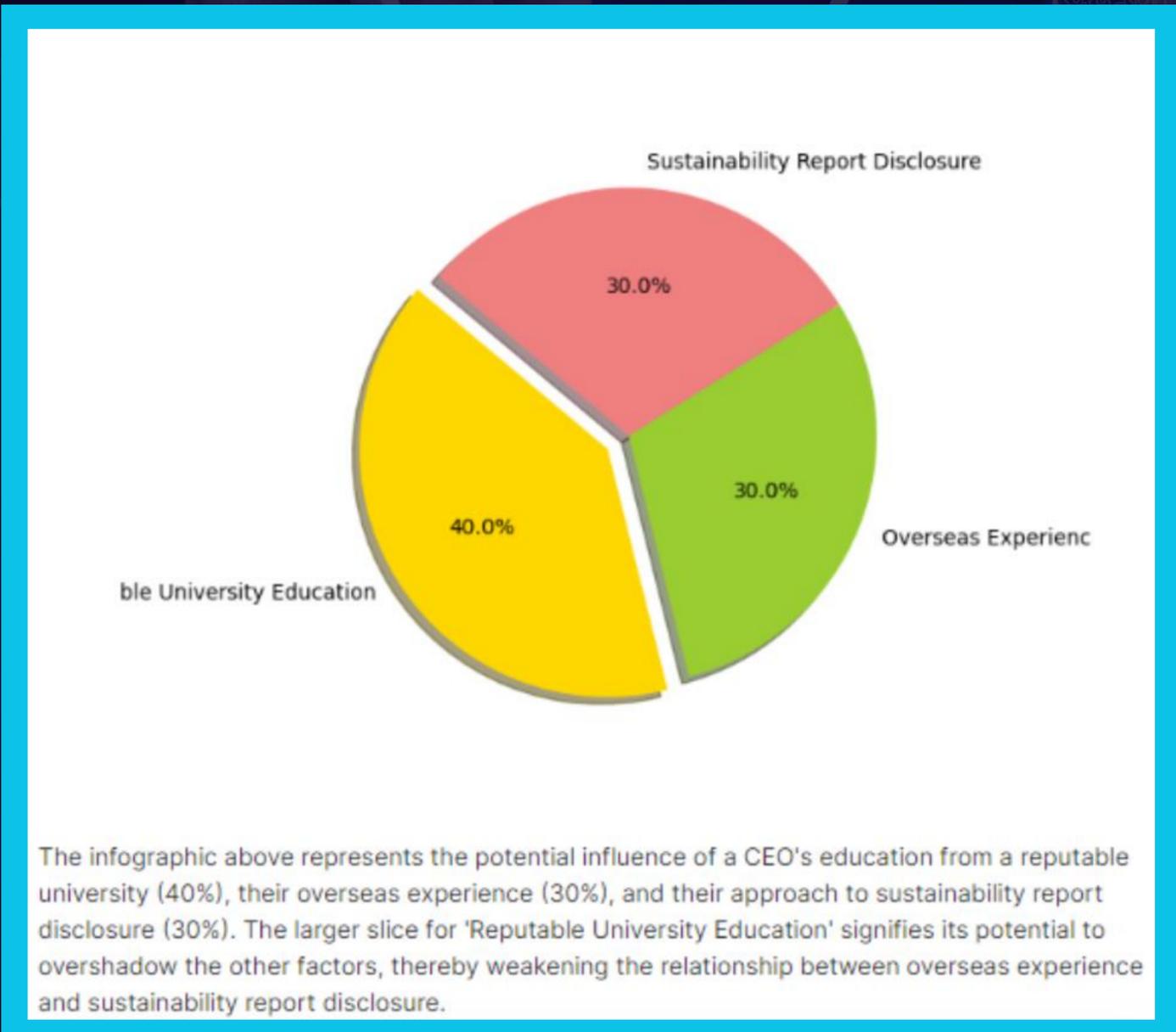
Ask a follow-up... ⚡ 2/5

Smart ⚡ Genius ⚡ GPT-4 ⌵ ⚡ Research ⚡ Create ⬆





Create Mode



N jelaskan CEO from reputable university memperlengkap hubungan CEO overseas experience and sustainability report disclosure

Create

Thinking v

Writing v

Thinking v

Programming v

Writing v

Answer ^

I will explain the relationship between a CEO from a reputable university, their overseas experience, and sustainability report disclosure.

A CEO from a reputable university may have a strong educational background and theoretical knowledge, which can influence their leadership style and decision-making process. This can

Ask a follow-up... 1/5

Smart Genius GPT-4 v Research Create

Grammar editing feature, online proofreading with file download, quotation checker, plagiarism checker, paraphrasing, and journal finder.



TRINKA

File Document Style Academic, None Inclusive Language No Category Get Access to Trinka Labs Upgrade

Normal Font Size B I U x₂ x² English Alerts 2

CEOs with international work experience and educational backgrounds from abroad have been shown to positively influence CSR disclosure in firms. Specifically, in Indonesia, such characteristics are associated with increased CSR activity disclosure. This effect is also significant and positive, which suggests that CEOs who have worked or studied abroad are more likely to participate in CSR disclosure. In addition, CEOs with a humanities or social science background are more likely to participate in CSR activities.

- ~~which suggests~~
→ suggesting
- ~~a humanities or social science background~~
→ humanities or social science backgrounds

Grammar Paraphraser Beta Consistency Publication Checks Citation Checker Plagiarism Checks Journal Finder Feedback

File Name: revisi CSREM Word Count American English

<https://www.trinka.ai/>



<https://www.trinka.ai/>

By uploading the manuscript file, you can search for relevant journals.

TRINKA Free Credits: 4 NS

Journal Finder Results

Generated on: Apr 30, 2024, 10:59:52 AM | [View Abstract](#) [Back to Search](#)

Filters

Target Journal ▾ Geography ▾ Impact Factor ▾ H Index ▾ CiteScore ▾ Show open access only Hide predatory journals

Showing the top 5 journal recommendations based on your search
We have sampled 1191 articles from 646 journals to give this recommendation

Rank #1

Sustainability

Publisher: MDPI Open Access Publishing | [Journal Website](#)

Impact Factor: 3.889 H Index: 109 CiteScore: 5

Language: ENG
Geography: Switzerland

[See all similar articles published \(73\)](#)

Year	No. of Articles Published
2014	0
2015	0
2016	1
2017	3
2018	6
2019	15
2020	11
2021	23
2022	12
2023	2
2024	0

10-year publication trend: 73 articles with similar concepts published



CREDIBILITY CHALLENGES OF AI IN RESEARCH

Despite its potential to improve research efficiency, AI can also :

- introduce fake references
- fabricate information
- perpetuate racist content from the internet

all of which would be detrimental to published scientific writing (Hoover, 2023; Kendrick, 2023; Dwivedi et al, 2023).

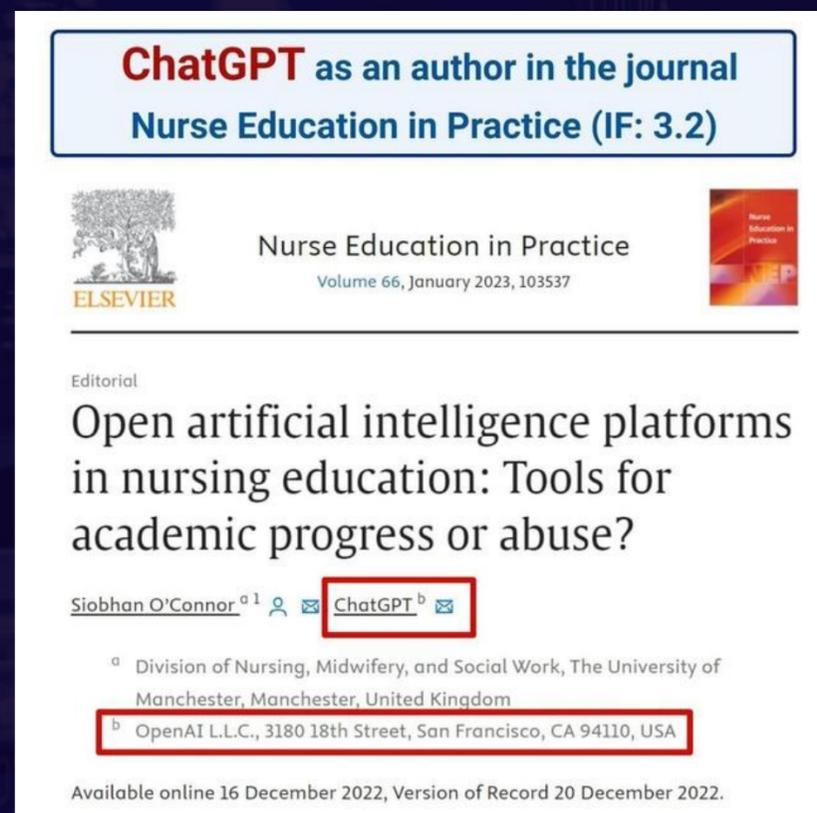
Dwivedi, Y. K., Kshetri, N., Hughes, L., Slade, E. L., Jeyaraj, A., Kar, A. K., Baabdullah, A. M., Koohang, A., Raghavan, V., Ahuja, M., Albanna, H., Albashrawi, M. A., Al-Busaidi, A. S., Balakrishnan, J., Barlette, Y., Basu, S., Bose, I., Brooks, L., Buhalis, D., ... Wright, R. (2023). "So what if ChatGPT wrote it?" Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. *International Journal of Information Management*, 71(March). <https://doi.org/10.1016/j.ijinfomgt.2023.102642>

Hoover, A. (2023). Use of AI Is Seeping Into Academic Journals—and It's Proving Difficult to Detect. *WIRED*. <https://www.wired.com/story/use-of-ai-is-seeping-into-academic-journals-and-its-proving-difficult-to-detect/>

Kendrick, C. (2023). Guest Post — The Efficacy of ChatGPT: Is it Time for the Librarians to Go Home? *The Scholarly Kitchen*. <https://scholarlykitchen.sspnet.org/2023/01/26/guest-post-the-efficacy-of-chatgpt-is-it-time-for-the-librarians-to-go-home/>

ETHICAL CONSIDERATIONS OF AI IN RESEARCH

Several academic papers have recently been published with AI tools as a co-author which raises ethical concerns about copyright, bias, and unclear authorship (Dwivedi et al, 2023).



“It is important to note that **AI tools cannot be listed as an author of a paper**, as they cannot meet the requirements for authorship or take responsibility for the submitted work (COPE editorial, 2023).”

Dwivedi, Y. K., Kshetri, N., Hughes, L., Slade, E. L., Jeyaraj, A., Kar, A. K., Baabdullah, A. M., Koohang, A., Raghavan, V., Ahuja, M., Albanna, H., Albashrawi, M. A., Al-Busaidi, A. S., Balakrishnan, J., Barlette, Y., Basu, S., Bose, I., Brooks, L., Buhalis, D., ... Wright, R. (2023). “So what if ChatGPT wrote it?” Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. *International Journal of Information Management*, 71(March).

<https://doi.org/10.1016/j.ijinfomgt.2023.102642>

COPE editorial. (2023) Artificial intelligence and authorship. <https://publicationethics.org/cope-position-statements/ai-author>

APPROPRIATE USE OF AI: THE DOS AND DON'TS

DO

Create awareness about the benefits of using AI and how it can be compatible with your research field

Provide the opportunities to try and explore AI and allow yourself experience its potential benefits beforehand

Develop critical thinking skills in those particular academic and professional context

Discern whether the information generated was accurate or not

Source: Ayanwale, M. A., & Molefi, R. R. (2024). Exploring intention of undergraduate students to embrace chatbots: from the vantage point of Lesotho. *International Journal of Educational Technology in Higher Education*, 21(1), 20.



In-practice of Dos

Angela Seaworth, an instructional Assistant Professor at Texas A&M University in College Station, TX, stated that she used AI during teaching:

“I’ve used it in assignments to let students experiment.”



<https://www.forbes.com/sites/marybethgasman/2024/04/24/how-are-college-faculty-using-ai/?sh=7d673b5053cf>



In-practice of Des

MIT News

ON CAMPUS AND AROUND THE WORLD

SUBSCRIBE

BROWSE

SEARCH NEWS



MIT faculty, instructors, students experiment with generative AI in teaching and learning

At MIT's Festival of Learning 2024, panelists stressed the importance of developing critical thinking skills while leveraging technologies like generative AI.

Watch Video

Katherine Ouellette | Office of Open Learning
April 29, 2024

PRESS INQUIRIES



Panelists (left to right) Joe Diaz '11, graduate student Rachael Harkavy, undergraduate Joyce Yuan, graduate student Lancelot Blanchard, and graduate student Grace Song look toward moderator Ian Waitz as they discuss how they use generative AI in school and work.

Photo: Chris McIntosh



<https://news.mit.edu/2024/mit-faculty-instructors-students-experiment-generative-ai-teaching-learning-0429xt>



In-practice of Don'ts



Introduction

Certainly, here is a possible introduction for your topic: Lithium-metal batteries are promising candidates for high-energy-density rechargeable batteries due to their low electrode potentials and high theoretical capacities [1], [2]. However, during the cycle, dendrites forming on the lithium metal anode can cause a short circuit, which can affect the safety and life of the battery [3], [4], [5], [6], [7], [8], [9]. Therefore, researchers are indeed focusing on various aspects such as negative electrode structure [10], electrolyte additives [11], [12], SEI film construction [13], [14], and collector modification [15] to inhibit the formation of lithium dendrites. However, using a separator with high mechanical strength and chemical stability is another promising approach to prevent dendrites from infiltrating the cathode. By incorporating a separator with high

<https://doi.org/10.1016/j.surfin.2024.104081>

The screenshot shows a tweet from @ChatGPTricks stating: "ChatGPT prompt reply identified in published research paper." Below the tweet is a screenshot of a ScienceDirect article page for "Surfaces and Interfaces". The article title is "The three-dimensional porous mesh structure of Cu-based metal-organic-framework - aramid cellulose separator enhances the electrochemical performance of lithium metal anode batteries" by Manshu Zhang, Liming Wu, Tao Yang, Bing Zhu, and Yangai Liu. The abstract discusses the use of Cu-based metal-organic-framework (CuMOF-ANFs) composite separator to inhibit lithium dendrite formation. In the "1. Introduction" section, a yellow highlight is placed over the text: "Certainly, here is a possible introduction for your topic: Lithium-metal batteries are promising candidates for high-energy-density rechargeable batteries due to their low electrode potentials and high theoretical capacities [1,2]. However, during the cycle, dendrites forming on the lithium metal anode can cause a short circuit, which can". A green arrow points from this highlighted text to the abstract section.

DON'Ts

Directly copy generated content from AI to avoid potential plagiarism impact on the research writing

Assume AI as a silver bullet

“Despite the hopes and expectations of lots of people that I meet, **artificial intelligence, machine learning and deep learning are no silver bullets**. These are novel technologies in our toolbox that help us solve problems that we were unable to solve earlier or at least solve as well.”

–Jan Bosch, Professor of Software Engineering at Chalmers University of Technology–

<https://www.linkedin.com/pulse/ai-silver-bullet-jan-bosch/>



DON'Ts

Rely solely on AI

Presume that AI can replace human judgement. AI does not possess a critical thinking like human does. Hence, always involve your knowledge and expertise.

“Researchers have already provided compelling evidence that **generative AI in general and ChatGPT specifically provide biased output** (e.g., Chen et al., 2023; Hartman et al., 2023).”

“ Conducting research still requires human intelligence as **ChatGPT is not capable of doing so yet.**”

Dwivedi, Y. K., Kshetri, N., Hughes, L., Slade, E. L., Jeyaraj, A., Kar, A. K., ... & Wright, R. (2023). “So what if ChatGPT wrote it?” Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. *International Journal of Information Management*, 71, 102642.





Thank You!