

# 領航學術 AI浪潮

圖書館重塑信賴與價值

Navigating AI in Scholarly Communication.  
Libraries Build Trust and Access.

## 人工智慧效能與學術鏈結資料

AI Efficiencies & Scholarly Linked Data+



公丕儉 (EBSCO)

Market research -- what are customers saying about AI?  
市場研究 -- 客戶(i.e.圖書館)對 AI 有何評價?

# How are libraries feeling about AI? 圖書館對人工智慧有何看法？



Curious on potential  
對其潛力充滿**好奇**



Skeptical / nervous about the implications on librarian value proposition.  
對圖書館員價值主張的影響持**懷疑/緊張**態度。



Threatened or jeopardized in their ability to teach / promote library fundamental principles, or to succeed in their role in teaching / promoting library basic principles or successfully fulfilling their responsibilities. They are under **threat**.



Overburdened trying to learn new tools  
嘗試學習新工具的**負擔過重**



Uniquely positioned / empowered to draw upon their distinct skillset to lead the way in the AI era, elevating the library's role and prominence. They have a **unique** positioning / ability, able to utilize their unique skills in the AI era to **lead** the trend, **enhance** the library's role and prominent position.



Unclear on campus standards / policy (and faculty variations)  
校園標準/政策（以及教師差異）**不明確**

# How are libraries incorporating AI tools?

## 圖書館如何導入AI工具？

### Smart Search & Discovery 智慧搜索和發現

- AI enables natural language search, allowing users to ask questions conversationally. AI 支持自然語言搜索，允許用戶以對話方式提問。

### Metadata & Cataloging Automation 詮釋資料和編目自動化

- Machine learning algorithms can assist in tagging and classifying new materials, improving catalog accuracy and reducing manual workload. 機器學習演算法幫助標記和分類新材料，提高目錄準確性並減少人力工作量。

### Virtual Assistants & Chatbots 虛擬助理和聊天機器人

- AI-powered chatbots can answer FAQs, guide users through databases, and provide 24/7 support for common queries. AI 驅動的聊天機器人可以回答常見問答集，引導用戶瀏覽數據庫，並為常見查詢提供全天候支持。

### Research Support & Impact Forecasting 研究支持和影響預測

- AI can help researchers analyze citation networks, predict research impact, and identify emerging academic trends. AI 可以幫助研究人員分析引文網絡、預測研究影響並識別新興學術趨勢。

### Accessibility Enhancements 無障礙(可訪問)功能提升

- AI tools can support multilingual translation, voice interaction, and screen reader compatibility, making library services more inclusive. AI 工具可以支援多語言翻譯、語音互動和螢幕閱讀器相容性，使圖書館服務更具包容性。



# How are librarians communicating AI tools to patrons?

## 圖書館員如何向讀者介紹與傳達人工智慧 (AI) 工具?

### Workshops & Hands-On Programs

#### 研討會和實務課程

- Libraries are hosting AI literacy workshops where patrons learn to use AI tools and ethical ways to interact with them.
- 圖書館正在舉辦AI素養研討會，顧客學習使用AI工具以及與他們互動的道德方式。

### Digital Literacy Campaigns

#### 數位素養活動

- Libraries are integrating AI into broader digital literacy initiatives, teaching patrons how AI works, where it's used, and what risks to consider.
- 圖書館正在將AI整合到更廣泛的數位素養計劃中，向用戶傳授AI的工作原理、使用地點以及需要考慮的風險。

### Curated Resource Guides

#### 精選資源指南

- Librarians create online guides or printed brochures that explain AI tools available at the library, including usage tips and ethical considerations.
- 圖書館員創建在線指南或印刷小冊子，解釋圖書館提供的AI工具，包括使用技巧和道德考慮。

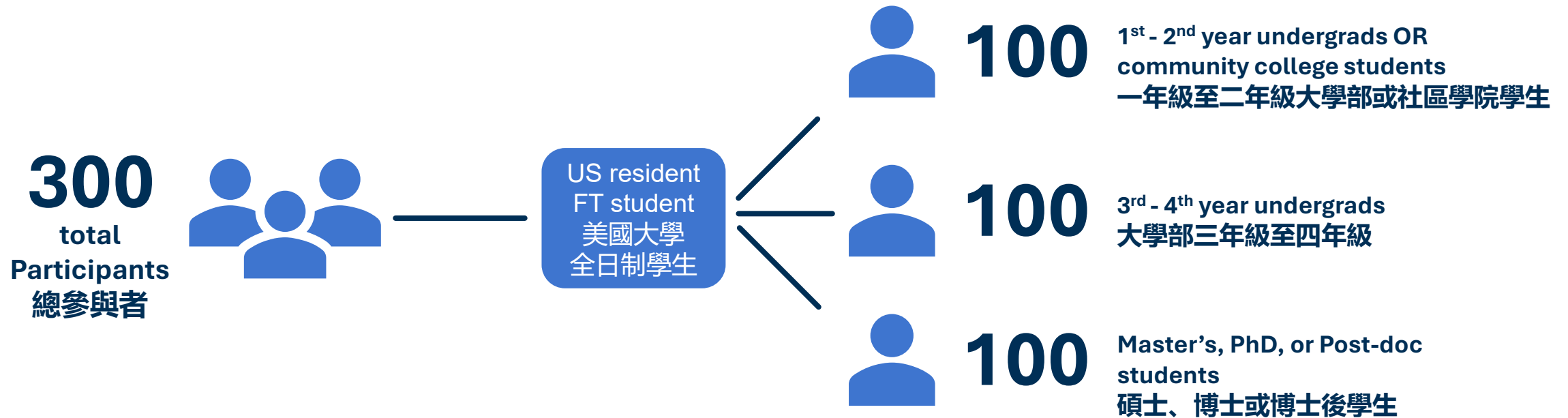
### One-on-One Tech Help

#### 一對一技術幫助

- Patrons can book time with a librarian for personalized help using AI tools—whether it's for job prep, writing/research assistance, or accessibility support.
- 讀者可以預訂圖書館員的時間，使用AI工具獲得個性化幫助——無論是工作準備、寫作/研究協助還是無障礙支持。

User research -- what are users saying about AI?  
用戶研究——用戶對人工智慧有何評價？

# Survey audience and participants 調查受眾和參與者

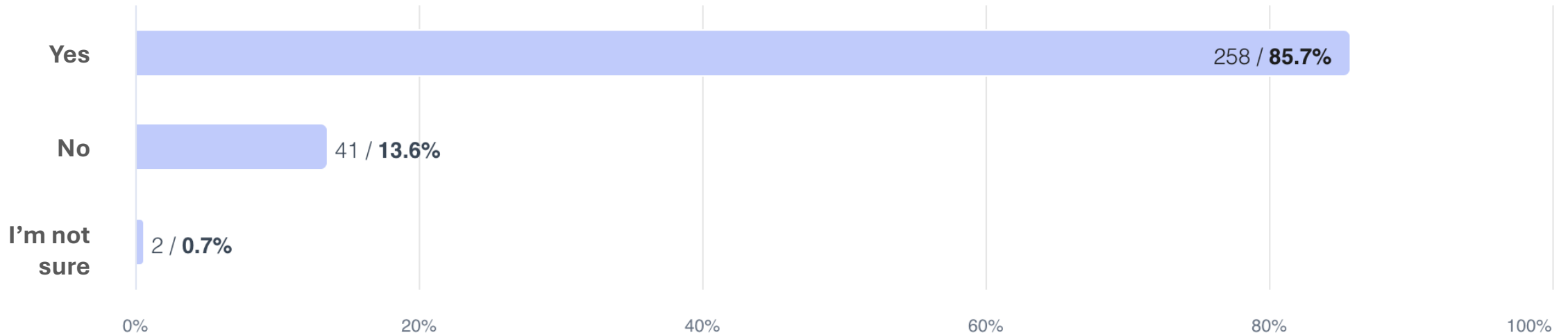


Participants recruited via UserTesting.com

# Nearly all students have used AI for research in some capacity ... 幾乎所有學生都使用AI進行研究.....

*Have you used AI technology to assist in any stage of your academic research – topic refinement, finding sources, evaluating sources, writing, etc.?*

你是否使用AI技術來協助學術研究的任何階段——主題細化、尋找來源、評估來源、寫作等？





# Summarization and “pre-search” are the most common AI tasks

## 摘要和“預搜索”是最常見的AI工作任務

	1	2	3	4	5	Mean
Answer a specific research question 回答特定的研究問題	49	49	49	106	48	3.2
Find most relevant sources on your topic 查找與您的主題最相關的來源	67	60	45	98	31	2.9
Summarize long articles or book chapters 總結長文章或書籍章節	49	29	42	84	97	3.5
Simplify or rephrase complex academic language 簡化或改寫複雜的學術語言	61	43	42	84	71	3.2
Make connections and insights across multiple sources 跨多個來源建立聯繫/見解	74	67	48	80	32	2.8
Make writing or phrasing suggestions 提出寫作或措辭建議	56	44	37	84	80	3.3
Generate writing from notes and bullet points 從筆記和要點生成寫作	79	45	42	81	54	3.0
	Never				Almost always	

# Mainstream tools dominate usage 主流工具主導了使用情況

How often do you use the following AI tools when performing academic research?  
在進行學術研究時，您使用下列人工智慧（AI）工具的頻率為何？

	1	2	3	4	5	Mean
General AI chat and search tools	32	26	38	84	121	3.8
Research-specific AI tools	150	63	26	46	16	2.1
AI tools within research platforms	138	70	31	46	16	2.1

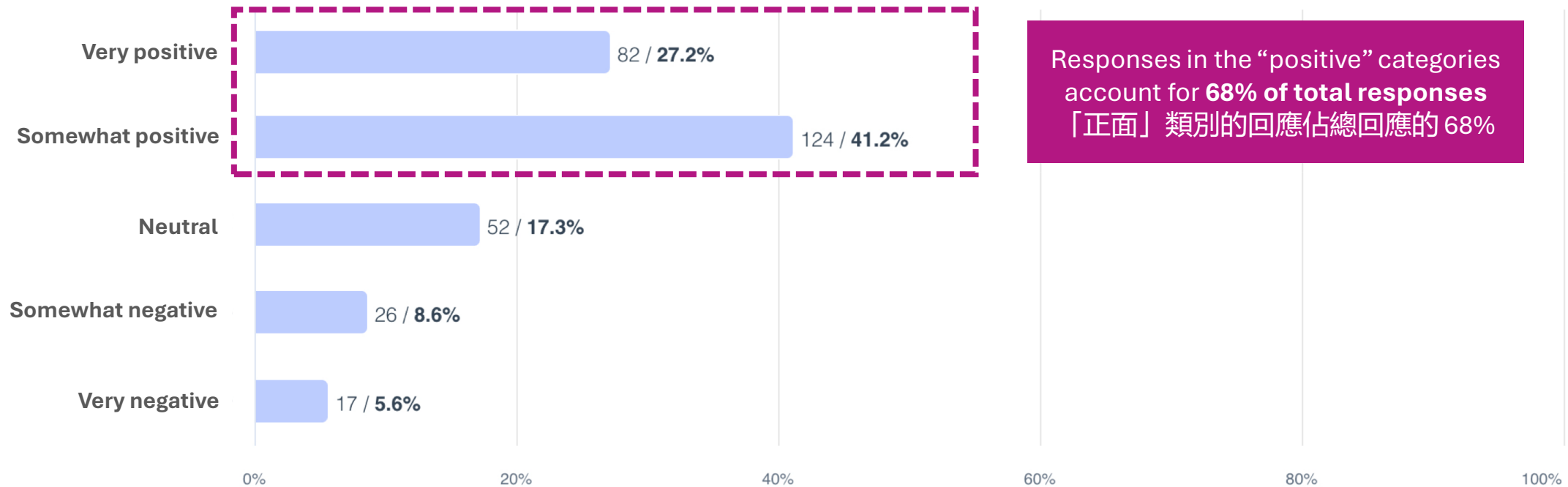
NeverAlmost always

General AI chat and search tools: ChatGPT, Perplexity, CoPilot, etc.  
Research-specific AI tools: Consensus, Elicit, SciSpace, Semantic Scholar, etc.  
AI tools within research platforms: JStor, Clarivate (ProQuest), EBSCO, etc.

# Students are generally positive about using AI for research ... 學生普遍對使用人工智慧進行研究持積極態度.....

*How do you feel overall about the use of AI technology in academic research?*

你對在學術研究中使用AI技術的整體看法為何？



# ... But have trust issues and are wary of institutional backlash ...但存在信任問題，並對可能來自機構(大學)的反彈保持警惕

*What, if any, barriers or concerns do you have about using AI technology in your academic research?*

在學術研究中使用AI技術時，你有什麼障礙或擔憂？

AI generating **untrustworthy answers**  
or **content** AI 生成不可信的答案或內容

224 / 74.4%

**Breaking institutional policies** against AI  
usage 違反針對AI使用的機構政策

163 / 54.2%

Impact on intellectual  
property and publishing

118 / 39.2%

Impact on data privacy

111 / 36.9%

Lack of nuance / complexity  
in AI-generated insights

107 / 35.5%

Bias, tendency to reinforce  
inequity / stereotypes

98 / 32.6%

Impact on environment

85 / 28.2%

**I don't have any concerns** about using AI  
for research 我對使用人工智慧進行研究  
沒有任何擔憂

28 / 9.3%

Closed answered responses developed from previous  
qualitative research and commonly held concerns  
about AI in a both a research and general use context.

# Conversational discovery streamlines undergrad workflow

## 對話式探索使大學生的學習過程更為順暢 (?)

**Undergraduate students** are normalizing asking **research questions directly** of ChatGPT (or similar tool.) In these cases, users will typically ask ChatGPT to **provide sources** to check accuracy or for citation purposes.

大學生正在常態化直接使用 ChatGPT（或類似工具）提出研究問題。在這些情況下，使用者通常會要求 ChatGPT 提供來源以檢查準確性或用於引用目的。

The result is a **collapsing of the topic refinement and discovery phases** into a series of conversational interactions between AI and user, where the student can not only gain further understanding of research material, but walk away with relevant sources they can cite in their assignment.

結果是將主題細化和發現階段**分解**為人工智慧和使用者之間的一系列對話交互，學生不僅可以進一步瞭解研究材料，還可以獲得他們可以在作業中引用的相關來源。

Pre-search

*What are the pros and cons of renewable energy sources?*

可再生能源的優缺點是什麼？



Discovery

*Show me sources that support these claims*

向我顯示支援這些說法的來源

# Students trade ease of discovery for wariness of AI accuracy

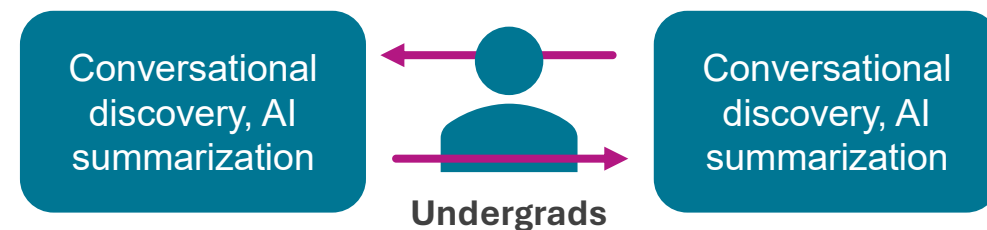
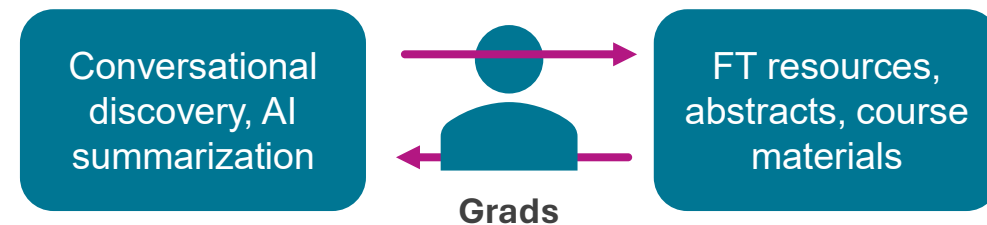
## 學生們以探索的難易程度換取了對AI準確性的警惕

Students try to overcome their biggest concern of using AI— trusting the accuracy of AI responses— by **using several other research and AI platforms to complete their research tasks**. Some participants (especially undergrads) will cross-reference ChatGPT content with other bots or fact-check via NL searching on Google.

學生們試圖通過使用其他幾個研究和AI平臺來完成他們的研究任務，從而克服他們對使用AI的最大擔憂——相信AI回應的準確性。一些參與者（尤其是大學生）會將 ChatGPT 內容與其他機器人交叉引用，或通過 Google 上的自然語言搜索進行事實核查。

Other barriers include disappointing AI responses that **lack specificity of research discipline**, potentially costing saved time iterating on question and clarifying the context needed to get better AI responses.

其他障礙包括缺乏研究學科特異性的令人失望的AI回答，可能會浪費節省時間來反覆運算問題和澄清獲得更好的AI回答所需的背景。





*“There’s always a chance AI could miss something. **If I don’t read or skim the articles myself**, there’s a chance something’s getting missed, something’s getting left out.”*

*AI總是有可能錯過一些東西。如果我自己不閱讀或流覽這些文章，就有可能遺漏一些東西。*

– Grad, moderate AI user, February 2025

*“I use ChatGPT and Google side by side. **I’ll ask ChatGPT a question and then look for the same thing in Google.** I also use academic websites like Quizlet, Chegg, and Course Hero to make sure that all of the answers I’m getting from ChatGPT are matching.”*

*我並排使用 ChatGPT 和 Google。我會問 ChatGPT 一個問題，然後在 Google 中查找同樣的東西。我還使用 Quizlet、Chegg 和 Course Hero 等學術網站來確保我從 ChatGPT 獲得的所有答案都是匹配的。*

– Undergrad, frequent AI user, February 2025

# Faculty-driven AI policies are added burden for students

## 教師驅動的人工智慧政策給學生增加了負擔

Students report that AI usage policies at their institution tend to vary by professor, **creating additional friction in the research process**. Onus is placed on students to not only keep track of what platforms do and don't utilize AI (which may not always be clear) and in which cases they can and can't use those platforms.

學生們反應，他們所在機構的人工智慧使用政策往往因教授而異，這在研究過程中造成了額外的阻力。學生有責任不僅要跟蹤哪些平臺使用人工智慧，哪些平臺不使用人工智慧（這可能並不總是很清楚），以及在哪些情況下他們可以使用和不能使用這些平臺。

Directives from faculty often lack nuance – “you can't use any AI” – even in instances where library resources at those institutions contain AI-driven search features and/or summarization (e.g. Ehost / EDS) 教師的指令通常缺乏細微差別——“你不能使用任何人工智慧”——即使在這些機構的圖書館資源包含人工智慧驅動的搜索功能和/或摘要（例如 Ehost / EDS）的情況下也是如此

Faculty relate a similar ambivalence, wanting to student to learn the “right way,” **while observing how AI is rapidly transforming their fields**. 教師們也表達了類似的矛盾心理，觀察人工智慧如何迅速改變他們的領域時，希望學生以“正確的方式”學習，同時。

# 54%

are concerned about misusing AI  
**according to their institution's AI  
usage policies**

擔心違反其所屬機構的 AI 使用政  
策而誤用/不正當使用AI工具

Managing conflicting expectations and  
messaging from faculty may account for  
anxiety associated with AI usage  
面對教師對 AI 使用的不同期待與訊息，  
可能使學生在使用 AI 時感到焦慮

*I have professors that are telling me **I have to learn to use AI to be relevant in my field** and others who are telling me **I can't use ChatGPT for anything in their class.***

我有教授告訴我，我必須學會使用AI才能與我的領域相關，而也有教授告訴我，我不能在課堂上使用ChatGPT 做任何事情。

– Undergrad, moderate AI user, February 2025

# Key Takeaways 重點摘要

- While AI usage and use cases vary, **nearly all students are using generative AI to some degree** to streamline their research process 雖然AI的使用情況和用途各有差異，但**幾乎所有學生都多少運用生成式 AI** 來讓他們的研究流程更有效率
- **Summarization of lengthy articles** and **explanation of complex academic material** are by far the most common use case among students **冗長文章的總結和複雜學術材料的解釋**是迄今為止學生中最常見的用例
- “Conversational discovery” is **collapsing once distinct parts of the research process** with increased reliance on AI to find and deliver sources 隨著對AI在尋找與提供資料來源上的依賴日益增加，“對話式探索”**正在使研究過程中原本各自獨立的部分逐漸融合。**
- Reliance on AI for summarization and discovery tasks shifts effort from searching and compiling to **reviewing and fact-checking** 對AI在摘要與探索任務上的依賴，使研究重心從搜尋與彙整轉向**審閱與事實查核。**
- Student **awareness and willingness** to engage with necessary “in the loop” reviewing and fact-checking varies based on **investment in assignment, time, and comfort with generative AI** 學生是否願意投入必要的“人工審閱與事實查核”，取決於他們對**作業的重視程度、時間安排，以及對生成式 AI 的使用熟悉度**
- **Institutional constraints and concerns** represent one of the biggest blockers to usage for students **學校制度上的規範與疑慮**，是阻礙學生使用 AI 的主要因素之一
- It's difficult not to acknowledge generative AI is **emerging as an essential part of student research workflow** 很難否認，生成式 AI 正在成為**學生進行研究時的重要工具與核心環節**

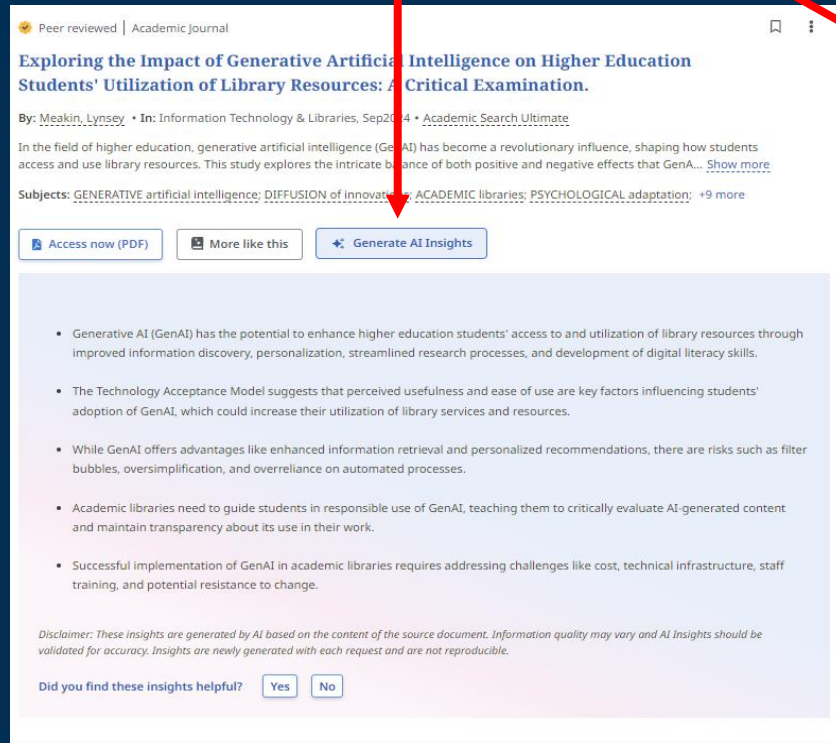
EBSCOhost & EBSCO Discovery Service

# Features supported by generative AI



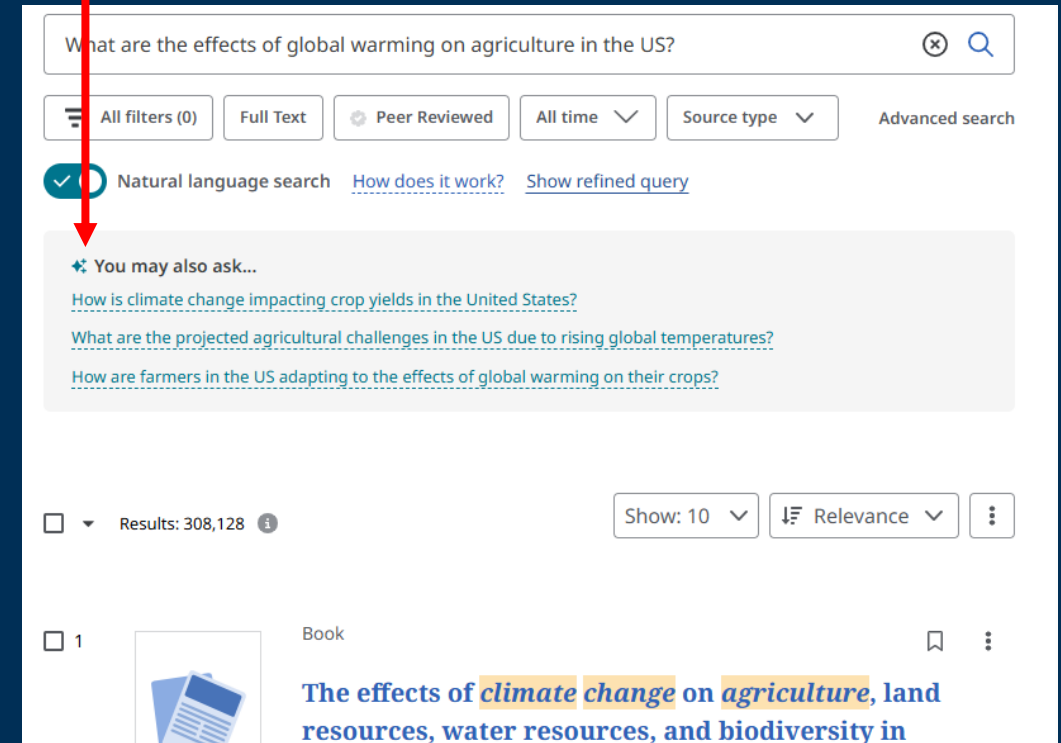
# Releases: March 2025

- AI Insights (summaries)
- Natural Language Search



# November 2025

- Recommended Searches
  - As part of Natural Language Search



# Recommended Searches – Basic Search with helpful 'next questions'

- Recommended Searches

The screenshot shows the EBSCO search interface. The search bar contains 'global warming'. Below the search bar, there are filters: 'All filters (0)', 'Full Text', 'Peer Reviewed', 'All time', and 'Source type'. A red box highlights the 'Natural language search' toggle, which is turned on, and a section titled 'You may also ask...' with three suggested questions:

- [What are the current effects of global warming on ecosystems worldwide?](#)
- [How can individual actions contribute to mitigating global warming?](#)
- [What are the economic impacts of global warming on developing countries?](#)

Below the search results, there is a section for 'Global warming: the science of climate change / Frances Drake.' with details about the book, including the author, year, and location.

# Result after clicking on a Recommended Search – drill even deeper into a 'newly discovered' topic

The screenshot displays the EBSCO search interface. The search bar at the top contains the query "What are the economic impacts of global warming on developing countries?". Below the search bar, there are filters for "All filters (0)", "Full Text", "Peer Reviewed", "All time", and "Source type". A red box highlights the "Natural language search" section, which includes a toggle switch and links for "How does it work?" and "Show refined query". Below this, another red box highlights a section titled "You may also ask..." with three suggested queries: "How does global warming affect the economies of developing nations?", "What are the financial consequences of climate change for developing countries?", and "In what ways does global warming exacerbate economic challenges in developing regions?". The search results section shows 37,747 results. The first result is a book titled "Low carbon transition in emerging economies [electronic resource] : climate policy, carbon pricing and the effect on employment / Erkin Erdoğan." by Erdoğan, Erkin. The summary states: "Many emerging economies are in the front line of the devastating impacts of global warming such as desertification and extreme weather events but, for...". The subjects listed are: Carbon offsetting -- Developing countries; Carbon dioxide mitigation -- Economic aspects -- Developing countries; Environmental policy -- Economic aspects -- Developing countries; Climatic changes -- Economic aspects -- Developing countries; +1 more.

# **Linked Data @ EBSCO**

**A Network of Possibilities**

# Our Linked Data Journey

## 1995 EBSCO launches EBSCOhost

Based on EP-MARC, a format to normalize and link publisher data across databases for better discovery.  
An early form of linking data.

## 2003 EBSCO Leverages CINAHL

CINAHL, which uses medical vocabularies to link related research together from cross-links.  
An early form of hyperlinking research.

## 2010 EBSCO Discovery Service is launched

Creating hyperlinked full text and linked database data for discovery.

## 2014 EBSCO Unified Subject Index is created

Linking all subject vocabularies in the publishing space

## 2018 USI becomes a knowledge graph

Increasing LD across vocabularies, LD sources, and languages

## 2021 BiblioGraph launched

From the Zepheria scholarly graph

## 2024 EGSG launched

Combining all linked data and KGs at EBSCO

## 1998 Tim Berners-Lee creates the Semantic Web Roadmap

Establishing the Semantic Web for the future

## 1999 RDF is created

One of the main ways linked data is represented

## 2003 SKOS is launched

A popular linked data schema for vocabularies

## 2009 LOC LD

Created a linked vocabulary data service

## 2011 schema.org is launched

A schema for open web linked data

## 2012 Google publishes paper on their Knowledge Graph

Showing early KG integrations with AI

## 2023 Research published showing KG helps AI

Starts neuro-symbolic push into AI for higher-AI accuracy

## 1995 Dublin Core is created

A popular linked data standard

## 2010 Google Acquires Freebase

Freebase is later turned into the Google Knowledge Graph

## 2012 Wikidata is created

The linked data behind Wikipedia

## 2022 OpenAI ChatGPT launched

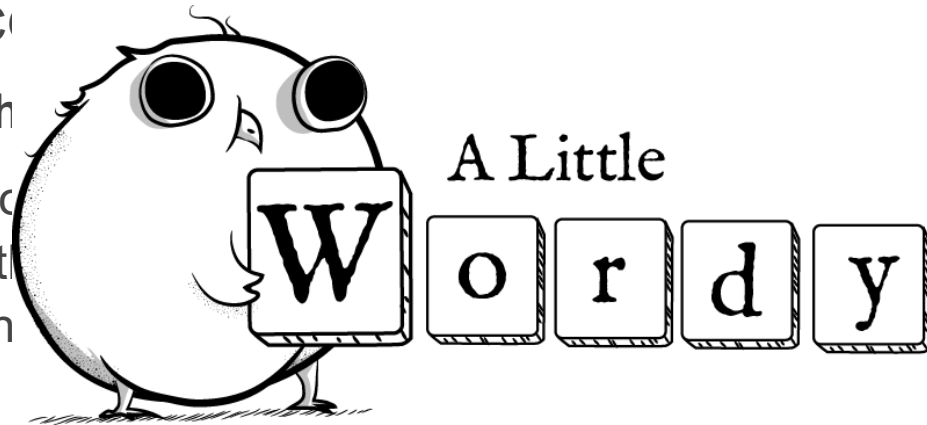
Start of GenAI push

# What is the relationship between AI and Linked Data?

[Early research](#)\* has shown that when an LLM is connected to linked data in the form of a knowledge graph, there is a **54% increase in accuracy which reduces the chance for hallucinations in AI responses**. Grounding AI with authoritative, networked (i.e. linked), structured data improves accuracy, reduces hallucinations, and helps combine data from disparate sources. Linked data is an area EBSCO has been investing in for years and which is now providing a strong foundation for us to test grounding LLM responses, have more robust entity resolution, enable academic and citation network analysis with the EBSCO

**How big is the ESG (what is th**

As of 7/17/25. There are close to  
organizations, topics. Between the  
authors, and more included in the  
<https://bibfra.me/vocab/scholar>



**from?**

ncluding works, authors,  
ships such as cites,  
ilde ontology at

\*A Benchmark to Understand the Role of Knowledge Graphs on Large Language Model's Accuracy for Question Answering on Enterprise SQL Databases by Juan Sequeda, Dean Allemang, Bryon Jacob, 34 pages.

Submitted on 13 Nov 2023,  
<https://arxiv.org/abs/2311.07509>



# EBSCO 學術圖譜(ESG)的一些應用

## 引文發現 (Citations Discovery)：

透過傳統的搜尋方式，使用者找到了一篇與他/她的研究計畫相關的文章。透過學術圖譜 (scholarly graph)，使用者可以即時查看引用這篇重要文章的其它文獻一只需點擊一下按鈕，研究者便能發現那些基於、討論或甚至反駁該原始論文研究結果的其他研究。

## 參考文獻發現 (References Discovery)：

在找到感興趣的文章後，學術圖譜能夠連結到該文章作者所引用的論文或著作，讓使用者立即發現其他具權威性與影響力的研究成果。

## 人物頁面 (People Pages)：

學術圖譜將論文與作者連結起來，並進一步連結到共同作者與研究主題。透過學術圖譜，研究者可以查看作者的相關資訊，進而發現該作者的常見合作者、其他著作及所屬機構。透過這些連結，研究者能探索更多主題、出版物以及合作研究者。

# 引文發現 (Citation Discovery)

- 允許使用者透過特定文章的引文路徑來進行研究，
- 提供簡便的方式尋找並評估被引用的文章，
- 其內容比「舊平台」中的引文功能更豐富，
- 在有全文的情況下，快速存取被引用文章的全文。
- 學術圖譜（Scholarly Graph）：透過 ESG，使用者可以即時存取引用原始文章的其他文獻。只需點擊一下，就能發現其他基於、討論或反駁原始研究結果的論文。

Peer reviewed | Academic Journal

**Impact of the *global economic crisis* on metal levels in particulate matter (PM) in an urban area in the Cantabria Region (Northern Spain).**

By: *Arruti, A.*; *Fernández-Olmo, I.*; *Irabien, A.* • In: Environmental Pollution, 2011 • CAB Abstracts

Air pollution by particulate matter is well linked with anthropogenic activities; the *global economic crisis* that broke out in the 2000s may be a proper *indicator* of this close relationship. Some *economic indicators* show the regional effects of the *crisis* on t...

Subjects: air pollution; *economic crises*; heavy metals; human activity; +6 more

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Academic Journal

**The impacts of the *global economic crisis* on selected segments of the *world* trade in agricultural commodities.**

By: *Horská, E.*; *Smutka, L.*; *Maitah, M.* • In: Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis, 2012 • CAB Abstracts

This paper deals with the impacts of the *economic crisis* on the *world* trade in order to highlight the mutual interdependence between the development of the *world* output and trade. The paper observes mutual correlation in development of the *world* trade and...

Subjects: agricultural products; agricultural trade; commodities; *economic crises*; +8 more

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Academic Journal

**The *global economic crisis* and *international* tourism: a sub-continental analysis.**

By: *Jiménez-Guerrero, José Felipe.*; *Piedra-Muñoz, Laura.*; *Galdeano-Gómez, Emilio.*; +1 more • In: Tourism Planning and Development, 2021 • CAB Abstracts

This work conducts a comparative analysis of the main *international* tourism *indicators* on a sub-continental level from 2000 to 2019. The aim is to analyze the recent evolution of tourism growth in different areas and determine to what extent it has been e...

Subjects: *economic crises*; *international* tourism; tourism development; *economic* impact; +1 more

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The screenshot displays a research database interface. On the left, a list of search results is shown. The first result, titled "Impact of the global economic crisis on metal levels in particulate matter (PM) at an urban area in the Cantabria Region (Northern Spain)", has a "Cited by 40" button circled in blue. A blue arrow points from this button to the right-hand panel. The right-hand panel, titled "Cited by", shows a list of articles that have cited the first article. The first article in this list is "The washing effect of precipitation on particulate the pollution dynamics of rainwater in downtown", which is the same article as the first result on the left. This article has a "Cited by 1" button. The second article in the list is "Trace elements in PM2.5 in Shandong Province: So identification and health risk assessment", which has a "Cited by 1" button. The third article is "Trends of particulate matter (PM2.5) and chemical composition at a regional background site in the V Mediterranean over the last nine years (2002-2010)", which has a "Cited by 143" button. The fourth article is "PM2.5 and gaseous pollutants in New York State de 2016: Spatial variability, temporal trends, and eco influences", which has a "Cited by 1" button. The fifth article is "Environmental indicators for the assessment of q", which has a "Cited by 97" button. The interface includes search filters at the top, such as "All time" and "Source type", and a "Citation count" filter on the right. The bottom of the interface shows a "Peer reviewed | Academic Journal" status.

# Scopus Citation Counts on EDS & EBSCOhost

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The screenshot displays the EBSCOhost search results interface. On the left is a sidebar with the 'WORCESTER PUBLIC LIBRARY' logo and a 'My dashboard' menu containing links to Overview, Projects, Saved, Searches, Viewed, and Holds & checkouts. Below this is a 'Research tools' section. The main content area shows a search for 'critical analysis of Frank Herbert's Dune'. A yellow banner with blue text reads 'Powered by Elsevier Scopus Citation Counts API for "Mutual Customers"'. The first search result is 'Ecological Colonialism and Messianism: Frank Herbert's Critical Vision.' by Fortin, Jean-Pierre, published in the International Journal of Religion & Spirituality in Society, Dec. 2023. It has 3 citations on Scopus, which is highlighted with a red box. The second search result is 'Climate Change, Summer Temperature, and Heat-Related Mortality in Finland: Multi-cohort Study with Projections for a Sustainable vs. Fossil-Fueled Future to 2050' by Kivimäki, Mika; Batty, G. David; Suomi, Juuso, published in Environmental Health Perspectives, Dec. 2023. It also has 3 citations on Scopus, highlighted with a red box. Both results include buttons for 'Access now (PDF)', 'Download', and 'More like this', as well as an 'AI Generate insights' button.

Worcester Public Library

My dashboard

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- Saved
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Searching: EBSCO Discovery Service

critical analysis of Frank Herbert's Dune

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Results

Peer reviewed | Journal article

**Ecological Colonialism and Messianism: Frank Herbert's Critical Vision.**

Published in: International Journal of Religion & Spirituality in Society, Dec. 2023

Database: Academic Search Ultimate

Published in: Fortin, Jean-Pierre

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Peer reviewed | Journal article

**Climate Change, Summer Temperature, and Heat-Related Mortality in Finland: Multi-cohort Study with Projections for a Sustainable vs. Fossil-Fueled Future to 2050**

Kivimäki, Mika; Batty, G. David; Suomi, Juuso; +10 more • Environmental Health Perspectives, Dec. 2023 • CINAHL Complete

Climate change scenarios illustrate various pathways in terms of global warming ranging from sustainable development (Shared Socioeconomic Pathway SSP1-1.9), the best-case scenario, to fossil-fueled development (SSP5-8.5), the worst-case scenario. We examined the ... Show more

Subjects: Climate Change Adverse Effects; Urban Areas Finland; Greenhouse Effect Trends; Heat Stress Disorders Mortality; +23 more

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Available Now

The screenshot shows a research article page. At the top, there's a green banner with the text 'Available Now'. Below it, the article title is 'Parent-adolescent relationship and friendship quality: Psychological capital as mediator and neighborhood safety and satisfaction as moderator.' The journal is 'Current Psychology', published in August 2023. The database is 'Business Source Ultimate'. The authors listed are Zhong, Lin; Chen, Jun; Chen, Xiuzhu; Lin, Shuang; and others. There are buttons for 'Access options' and 'Download'. Below the article information, there's a navigation bar with tabs: 'Details', 'References 93' (which is highlighted with a yellow circle), 'Cited by 2', 'More like this', and 'More'. Under the 'References' tab, there's a section for 'Additional information' with a 'Title' field containing the article title. Below that is an 'Authors' section listing the authors with their affiliations and roles.

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**Parent-adolescent relationship and friendship quality: Psychological capital as mediator and neighborhood safety and satisfaction as moderator.**

Published in: Current Psychology, Aug2023

Database: Business Source Ultimate

By: [Zhong, Lin](#); Chen, Jun; [Chen, Xiuzhu](#); Lin, Shuang; +5 more

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**Title**

Parent-adolescent relationship and friendship quality: Psychological capital as mediator and neighborhood safety and satisfaction as moderator.

**Authors**

[Zhong, Lin](#)<sup>1,2,3,4</sup> (AUTHOR)

[Chen, Jun](#)<sup>1,2,3,4</sup> (AUTHOR) [chenjunyrh@163.com](mailto:chenjunyrh@163.com)

[Chen, Xiuzhu](#)<sup>5</sup> (AUTHOR)

[Lin, Shuang](#)<sup>1,2,3,4</sup> (AUTHOR)

[Chan, Lok-kit](#)<sup>6</sup> (AUTHOR)

[Cao, Lei](#)<sup>7</sup> (AUTHOR)



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**The strengthening starts at home: Parent-child relationships, psychological capital, and academic performance – a longitudinal mediation analysis.**

By: Carmona-Halty, Marcos; Salanova, Marisa; Schaufeli, Wilmar B. • In: Current Psychology, Jun2022 • Sociology Source Ultimate • Cited by: 38

This longitudinal study examines how academic psychological capital mediates between parent-child relationships and academic performance in a group of high school students. The sample consisted of 402 students (217 girls and 187 boys) aged between 12 and 17 years. Using a three-...

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**High-performance work systems and key employee attitudes: the roles of psychological capital and an interactional justice climate.**

By: Miao, Rentao; Bozionelos, Nikos; Zhou, Wenxia; +1 more • In: International Journal of Human Resource Management, Jan2021 • Complementary Index • Cited by: 82

While there is evidence that high performance work systems (HPWS) are related to positive employee attitudes, the underlying mechanism is not yet thoroughly understood. Similarly, though the benefits of employees' psychological capital (PsyCap) in the workplace are well documented,...

Article

**Students' Learning Styles, Self-efficacy and its Correlation with their Social Interaction**

By: Hala Mahmoud Hawa; Filiz Yalçın Tılfarlıoğlu • In: 2019 • Cited by: 7

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**Chinese delinquent and non-delinquent juveniles: An exploration of the relations among interparental intimacy, interparental conflict, filial piety and interpersonal adjustment**

By: Jin, Can Can; Zhao, Bao Bao; Zou, Hong • In: Children and Youth Services Review, August 2019 • ScienceDirect • Cited by: 11

Juvenile delinquency is affected by family interpersonal relationships and interpersonal adjustment. Filial piety refers to how children treat their parents in Chinese family interpersonal relationships and is one of the most important codes of conduct for Chinese people. Exploring the...

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**Psychological capital is associated with higher levels of life satisfaction and school belongingness.**

By: Valdez, Jana Patricia M.; Datu, Jesus Alfonso D. • In: School Psychology International, Aug2019 • Complementary Index • Cited by: 45

Psychological capital (PsyCap) has been associated with key organizational and well-being outcomes. However, limited investigations have been carried out regarding the role of PsyCap in the educational settings. The present study assessed the association of PsyCap with life satisfaction...

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**The Parent-Adolescent Relationship and Risk-Taking Behaviors Among Chinese Adolescents: The Moderating Role of**

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# 推薦功能 2.0 (Recommendations 2.0)

Searching: All databases (299)

TI (Research on the Relationship between Wellness Tourism Experiencescape and R

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**Research on the relationship between wellness tourism experiencescape and revisit intention: a chain mediation model**

By: Chen, Kaung-Hwa; Huang, Leo; Ye, Ying • In: *International Journal of Tourism Research*, September 2022, volume 35, issue 3, pages 893-918

Purpose: This study aims to construct a scale for measuring the mechanism through which **wellness tourism experiencescape** affects **revisit intention**.

Subjects: **tourism**; **wellness**; tourists; **tourism** development

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Research on the relationship between wellness tourism experiencescape...

Journal Article

**The evolution of the initiative and tourism centers between 1951 and 1962. The cases of promoting tourism in Majorca and the Tarragona initiative and tourism union.**

By: Reus, Antoni Vives

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Abstract

The period between 1951 and 1962 represents a very significant stage in the history of tourism in Spain. And it is precisely in this context that it is also interesting to analyze the future of two of the most important centers of initiative and tourism: the Majorca Tourism Promotion Society, founded as early as 1905, and the Tarragona Union of Initiative and Tourism, created in the year 1910. These entities, which, by the way, would evolve through different channels, continue in force until today and offer the possibility of a

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# 文章撤稿 (Article Retractions)

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### Digital transformation, green innovation, and carbon emission performance of energy-intensive enterprises.

This resource is retracted

By: [Liu, Xiao-meng](#); [Zhang, Ying-guan](#) • In: Scientific Reports, 02/16/2024 • Academic Search Premier

Digital transformation and green innovation are powerful initiatives to achieve carbon peak and high quality economic development. Using a sample of high energy-consuming listed enterprises, this study explores the impact of digital transformation and green innovation on carbon emission performance. The results show that digital transformation and green innovation have a positive impact on carbon emission performance. The study also finds that the impact of digital transformation and green innovation on carbon emission performance is more significant for enterprises with higher digital transformation and green innovation levels. The study provides valuable insights for enterprises to improve their carbon emission performance.

Subjects: [Digital transformation](#); [Carbon nanofibers](#); [Carbon emissions](#); [Greenhouse gas mitigation](#); [+7 more](#)

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### Climate Change, Summer Temperature, and Heat-Related Mortality in Finland: Multi-cohort Study with Projections for a Sustainable vs. Fossil-Fueled Future to 2050

This resource is retracted

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By: [Kivimäki, Mika](#); [Batty, G. David](#); [Suomi, Juuso](#); [+10 more](#) • In: Environmental Health Perspectives, Dec. 2023 • CINAHL Complete • Cited by: 20

Climate change scenarios illustrate various pathways in terms of global warming ranging from sustainable development (Shared Socioeconomic Pathway... [Show more](#)

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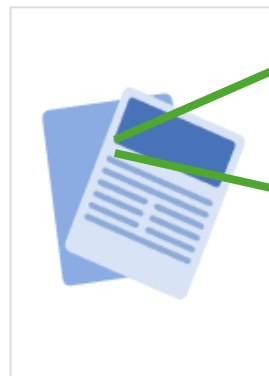


## Empowering Reading Engagement through Big Data Analytics in Taiwan.

作者：✎ [Hung, Wei-Hsiang](#); ✎ [Wang, Han-Ching](#); ✎ [Ke, Hao-Ren](#) • 於： Proceedings of the Association for Information Science & Technology, Oct2025, 卷 62, 期 1, 頁面 926-930 (5p) • Library & Information Science Source

This study explores how the National Central Library in Taiwan leverages a big data service platform to empower public libraries, enabling them to enhance reader participation through data-driven (... [顯示更多](#))

□ 3



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## A Study on the User Outcomes of Implementing the Sustainable Development Goals in Taiwanese Public Libraries.

作者： [Fan, Jia-Ruei](#); ✎ [Ke, Hao-Ren](#) • 於： Public Library Quarterly, Jun2025, 頁面 1-27 (27p) • Academic Search Complete

作者 <sup>beta</sup>

Hao-Ren Ke

 [0000-0002-2468-4633](#)

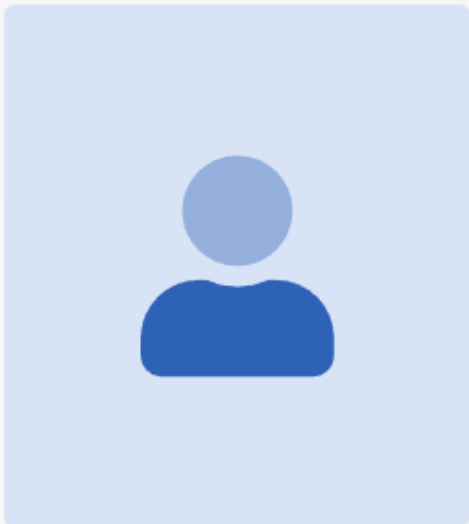
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**Empowering Reading Engagement through Big Data Analytics in Taiwan.**

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**作者：** Hung, Wei-Hsiang; Wang, Han-Ching; Ke, Hao-Ren • **於：** Proceedings of the Association for Information Science & Technology, Oct2025 • Academic Search Complete • **引用者：** 0

This study explores how the National Central Library in Taiwan leverages a big data service platform to empower public libraries, enabling them to enhance reader participation through data-driven decisions. The platform systematically processes de-identified...



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## Text summarization using a trainable summarizer and latent semantic analysis.

作者：Yeh Jen-Yuan; Ke Hao-Ren; Yang Wei-Pang • 於：Information Processing & Management, January 2005 • Education Abstracts (H.W. Wilson) • 引用者：251

✓ 同儕評鑑 | 學術期刊



## Classifier design with feature selection and feature extraction using layered genetic programming

作者：Lin, Jung-Yi; Ke, Hao-Ren; Chien, Been-Chian; 多 1 個 • 於：Expert Systems with Applications, Feb2008 • Academic Search Complete • 引用者：82

Abstract: This paper proposes a novel method called FLGP to construct a classifier device of capability in feature selection and feature

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## Design and performance evaluation of mobile web services in librariesA case study of the Oriental Institute of Technology Library.

作者：Wang, Chun-Yi; Ke, Hao-Ren; Lu, Wen-Chen • 於：Electronic Library, 2012 • Education Abstracts (H.W. Wilson) • 引用者：48

Purpose – This research aims to use the Oriental Institute of Technology Library (the OIT Library) in Taiwan as a case to introduce some of the mobile web services which can be provided by a library, as well as to investigate and discuss the first two mobile web services offer...

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