



Presentation Outline

報告內容大綱

Responsible AI and the future of Scholarly Publishing

負責任的AI與學術出版的未來

August 2023

Transformative power of Generative Artificial Intelligence (GAI) 生成式人工智慧 (GAI) 的變革力量

Description of how generative AI and large language models work, how they can be used, and the way they are changing how scholarship is created, published, and utilized. This section will emphasize the benefits GAI offers and the positive effects it can have on knowledge creation.

描述生成式人工智慧和大型語言模型的工作原理、應用方式，以及它們正在改變學術如何創建、發佈和使用的方式。本節內容將強調GAI帶來的益處及其對知識創造的積極影響。

The challenges of an AI-powered scholarly ecosystem

人工智慧驅動的學術生態系統的挑戰

A review of issues and unanswered questions resulting from the release of the current generation of AI tools and services.

回顧當前一代人工智慧工具和服務發佈後出現的問題和尚未解決的問題

What does responsible GAI look like?

負責任的 GAI 是什麼樣的?

A review of an ethical AI framework and the attributes required for it to play a positive role the development of scholarship and knowledge

審查人工智慧道德框架及其在學術和知識發展中發揮積極作用所需的屬性

- Factually accurate 事實準確
- Objective and unbiased 客觀公正
- Inclusive and culturally sensitive 包容和文化敏感性
- Respectful of individual privacy and IP 尊重個人隱私和智慧財產權

What role can publishers play in the evolution of responsible AI 在負責任的AI的發展中，出版商可以發揮什麼作用

Publishers have long been the validators of the scholarly ecosystem, and can play an equivalent role in the development of GAI in academic and educational settings

長期以來，出版商一直是學術生態系統的驗證者，並且可以在學術和教育環境中的GAI發展中發揮同等作用

1. Validation of GAI inputs: the training of large language models

GAI輸入的驗證：大型語言模型的訓練

2. Review of GAI outputs: the development of tools to optimize/validate query results

審查 GAI的輸出：開發優化/驗證查詢結果的工具

3. Development of large language models for academic/educational use

開發用於學術/教育用途的大型語言模型

Validation of generative AI inputs 生成式 AI 輸入的驗證

The Problem:

問題:

Scholarly publishing's role in the solution:

學術出版在解決方案中的作用:

Experiments and current examples:

實驗和當前示例:

Validation of generative AI outputs 生成式 AI 輸出的驗證

The Problem:

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Scholarly publishing's role in the solution:

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Experiments and current examples:

實驗和當前示例:

Creation of scholarly/educational large language models

創建學術/教育大語言模型

The Problem:

問題:

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Experiments and current examples:

實驗和當前示例:

The role of libraries

圖書館的作用

What libraries can do to assist in the development of responsible AI, and how scholarly publishers and university libraries can work together towards this aim.

圖書館可以做些什麼來幫助發展負責任的AI，以及學術出版商和大學圖書館如何共同努力實現這一目標