



THE FUTURE OF ACADEMIC PUBLISHING IN THE AI ERA: TOWARDS ETHICAL, INCLUSIVE AND SUSTAINABLE SCHOLARLY COMMUNICATION

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ABSTRACT:

The rapid advancement of Artificial Intelligence (AI) is transforming academic publishing and scholarly communication by redefining how research is created, evaluated, and disseminated. AI-driven tools are increasingly employed for literature review, manuscript preparation, language editing, plagiarism detection, peer review support, and citation management, thereby enhancing research efficiency and visibility. However, the growing integration of AI also raises critical concerns related to academic integrity, ethical governance, inclusivity, and long-term sustainability. The present study adopts a secondary data-based descriptive and analytical approach to examine the role of AI in academic publishing with a focus on ethical, inclusive, and sustainable scholarly communication. Drawing on peer-reviewed literature, policy documents, and reports from international organizations, the study analyses ethical challenges such as authorship, transparency, and algorithmic bias, while also assessing the inclusive potential and accessibility issues associated with AI adoption. Further, the study aligns AI-driven academic publishing practices with selected United Nations Sustainable Development Goals, including quality education, innovation, reduced inequalities, strong institutions, and global partnerships. Based on the analysis, a conceptual framework is proposed to explain how ethical governance and inclusive practices mediate the relationship between AI adoption and sustainable scholarly outcomes. The study concludes that while AI offers significant opportunities to strengthen academic publishing, its positive impact depends on responsible use, human oversight, and alignment with sustainability principles.

Keywords: Artificial Intelligence, Academic Publishing, Scholarly Communication, Ethics, Inclusivity, Sustainability, SDGs

INTRODUCTION:

The landscape of academic publishing and scholarly communication is undergoing a profound transformation with the rapid advancement of Artificial Intelligence (AI). Traditionally, scholarly publishing has relied on human-centric processes involving authorship, peer review, editorial decision-making, and dissemination through journals and academic platforms. While these conventional systems have ensured quality control and academic rigor, they have often been criticized for being time-consuming, resource-intensive, and inaccessible to a large segment of the global research community. In recent years, AI-driven technologies have emerged as powerful tools capable of reshaping these processes, introducing efficiency, scalability, and data-driven intelligence into scholarly communication systems.

Artificial Intelligence has expanded its footprint across multiple stages of the research and publication lifecycle. From automated literature reviews and language enhancement tools to plagiarism detection systems, citation analytics, peer review assistance, and journal recommendation engines, AI has become deeply embedded in academic workflows. These tools enable researchers to manage vast volumes of scholarly information, improve manuscript quality, and accelerate the publication process. Consequently, AI has been positioned as a transformative force capable of enhancing research productivity, reducing editorial bottlenecks, and improving the visibility and impact of scholarly outputs.

Despite these advancements, the growing reliance on AI in academic publishing raises significant ethical, institutional, and societal concerns. Questions surrounding academic integrity, authorship accountability, algorithmic bias, transparency, and data privacy have gained prominence in scholarly debates. The use of generative AI tools for content creation, paraphrasing, and language refinement challenges traditional notions of originality and intellectual contribution. Furthermore, opaque algorithmic decision-making in peer review and editorial screening processes risks undermining trust in academic institutions and publishing systems. These challenges necessitate the development of robust ethical frameworks and governance mechanisms to ensure responsible AI adoption in scholarly communication.

Another critical dimension of AI-driven academic publishing is inclusivity. While AI has the potential to democratize access to scholarly publishing by supporting non-native English speakers, early-career researchers, and scholars from resource-constrained institutions, disparities in access to advanced AI tools and digital infrastructure persist. The uneven distribution of technological resources across regions and institutions may inadvertently widen the global research divide, contradicting the principles of equity and inclusiveness that underpin sustainable development. Therefore, assessing the inclusivity implications of AI adoption in scholarly communication is vital to ensure that technological progress does not reinforce existing inequalities.

From a sustainability perspective, the future of academic publishing must be aligned with global development priorities, particularly the United Nations Sustainable Development Goals (SDGs). AI-enabled scholarly communication has the potential to advance SDG 4 (Quality Education) by improving access to high-quality research, fostering lifelong learning, and strengthening research capacity. It supports SDG 9

(Industry, Innovation and Infrastructure) by building intelligent research ecosystems and promoting innovation in knowledge dissemination. Moreover, ethical governance of AI aligns with SDG 16 (Peace, Justice and Strong Institutions), while inclusive access to publishing technologies contributes to SDG 10 (Reduced Inequalities) and collaborative research networks advance SDG 17 (Partnerships for the Goals).

In this context, examining the future of academic publishing in the AI era requires a holistic and interdisciplinary approach that integrates technological innovation with ethical responsibility, inclusivity, and sustainability. This study adopts a secondary data-based qualitative approach to critically analyze the evolving role of AI in scholarly communication, identify emerging ethical and governance challenges, and assess the alignment of AI-driven academic publishing with the Sustainable Development Goals. By proposing a conceptual framework for ethical, inclusive, and sustainable scholarly communication, the paper seeks to contribute to ongoing academic and policy discussions on responsible AI integration in higher education and research ecosystems.

REVIEW OF LITERATURE:

World Economic Forum (2025) examined the future of AI-driven knowledge ecosystems and scholarly communication. The report emphasized that sustainable academic publishing in the AI era requires human–AI collaboration, ethical governance frameworks, and global research partnerships to ensure credibility, inclusiveness, and long-term research impact.

OECD (2024) analysed governance frameworks for Artificial Intelligence in research and innovation systems. The study highlighted the necessity of regulatory alignment, institutional accountability, and ethical oversight to ensure responsible AI adoption in academic publishing and to strengthen trust in scholarly communication.

STM Association (2024) evaluated policy responses of global academic publishers to generative AI technologies. The findings revealed that clear classification of permissible and non-permissible AI uses, mandatory disclosure, and human editorial control are essential to preserve academic integrity and publishing standards.

Elsevier (2024) investigated global trends in AI-enabled scholarly communication. The report found that AI-powered publishing platforms significantly enhance research efficiency, discoverability, and innovation, while simultaneously raising concerns related to algorithmic bias and transparency.

Wiwanitkit (2024) examined the reliability of AI-generated content in scientific publishing. The study cautioned against fabricated references and unverifiable information produced by generative AI, recommending stricter editorial verification mechanisms.

Khalifa (2024) conducted a systematic review on the application of Artificial Intelligence in academic writing and publishing. The review concluded that AI improves manuscript quality and research productivity but presents ethical challenges related to originality, authorship, and citation accuracy.

Holmes and Tuomi (2024) explored the role of AI-assisted writing tools in higher education research. Their study indicated that AI supports non-native English-speaking scholars and early-career researchers, enhancing inclusivity, but requires institutional guidelines to avoid misuse.

UNESCO (2023) focused on Artificial Intelligence in higher education and research capacity development. The report emphasized equitable access to AI tools to prevent widening global research inequalities and highlighted AI's role in achieving SDG 4 (Quality Education) and SDG 10 (Reduced Inequalities).

Dwivedi et al. (2023) examined the institutional and societal implications of generative AI technologies. The study highlighted opportunities for efficiency and innovation in academic publishing, alongside risks related to misinformation, ethical ambiguity, and governance gaps.

COPE (Committee on Publication Ethics) (2023) analysed ethical challenges of AI-assisted research and publishing. The report concluded that AI tools should not be credited as authors and stressed transparency, disclosure, and human accountability in AI-assisted scholarly outputs.

Zhang, Wang, and Li (2023) studied AI-driven peer review and editorial decision-support systems. The findings showed that AI improves reviewer matching and plagiarism detection but may reinforce institutional bias if not carefully governed.

Elsevier Research Intelligence (2022) examined researchers' perceptions of AI tools in academic writing and publishing. The study found growing acceptance of AI-based tools, alongside persistent concerns about bias, misuse, and ethical disclosure.

Björk and Solomon (2022) analysed the evolution of digital and AI-supported scholarly publishing models. Their study concluded that automation improves publication efficiency but necessitates strong quality assurance mechanisms.

UNESCO (2021) proposed a global ethical framework for Artificial Intelligence. The recommendation emphasized transparency, fairness, accountability, and inclusivity as foundational principles for AI use in academic research and publishing.

RESEARCH GAP:

A critical examination of existing literature reveals that although Artificial Intelligence has been widely explored in the context of academic publishing and scholarly communication, significant gaps remain. Most prior studies concentrate primarily on the technological efficiency and functional advantages of AI tools, such as automated writing assistance, peer-review support, and citation management, with comparatively limited attention to the broader ethical, inclusivity, and sustainability implications. While several policy documents and ethical guidelines discuss concerns related to authorship, transparency, and academic integrity, these discussions are rarely integrated with the Sustainable Development Goals (SDGs), resulting in a lack of holistic, sustainability-oriented analysis. Furthermore, existing research tends to adopt fragmented disciplinary perspectives, failing to conceptualize scholarly communication as an interconnected ecosystem influenced simultaneously by technological innovation, institutional governance, and social

equity. The issue of inclusivity is often acknowledged but insufficiently examined in terms of the digital divide and unequal access to AI-enabled publishing tools, particularly for researchers from developing regions and resource-constrained institutions. Additionally, much of the current literature is limited to short-term adoption and perception studies, with minimal exploration of the long-term systemic impact of AI on research credibility, institutional trust, and the sustainability of scholarly communication systems. Addressing these gaps is essential to develop an integrated, SDG-aligned framework that ensures ethical, inclusive, and sustainable academic publishing in the AI era.

RESEARCH OBJECTIVES:

- To examine the role of Artificial Intelligence in academic publishing and scholarly communication.
- To analyse the ethical issues related to the use of AI in academic writing and publishing.
- To understand the impact of AI on inclusivity and access in scholarly communication.

RESEARCH METHODOLOGY:

The present study adopts a secondary data-based descriptive and analytical research design to examine the future of academic publishing in the era of Artificial Intelligence. Secondary data were collected from peer-reviewed journal articles, books, conference papers, institutional reports, policy documents, and publications of international organizations such as UNESCO, OECD, COPE, and leading academic publishers. The study also relied on recent scholarly literature related to AI, academic publishing, ethical governance, inclusivity, and sustainable development.

The collected data were analysed using a qualitative thematic analysis approach, wherein key themes related to AI applications in academic publishing, ethical concerns, inclusivity, and sustainability were identified, compared, and interpreted. Particular emphasis was placed on aligning insights from the literature with the United Nations Sustainable Development Goals (SDGs).

Since the study is based entirely on secondary sources, no primary data were collected, and no statistical tools were applied. The methodology focuses on synthesizing existing knowledge to develop a conceptual understanding and framework for ethical, inclusive, and sustainable scholarly communication in the AI era.

SCOPE OF THE STUDY:

The scope of the present study is limited to examining the role of Artificial Intelligence in academic publishing and scholarly communication based on secondary data sources. The study focuses on key aspects such as AI applications in academic writing and publishing, ethical issues, inclusivity, and sustainability. It analyses existing literature, policy documents, institutional reports, and international guidelines to understand how AI is shaping scholarly communication practices. The study also aligns AI-driven academic publishing with selected United Nations Sustainable Development Goals, particularly those related to quality education, innovation, reduced inequalities, strong institutions, and global partnerships. The scope is conceptual and analytical in nature and does not involve empirical testing or primary data collection.

LIMITATIONS OF THE STUDY:

The study is subject to certain limitations. First, it is based entirely on secondary data, and therefore the findings depend on the accuracy, scope, and relevance of existing literature and reports. Second, the study does not include primary data such as surveys or interviews, which may limit insights into real-time perceptions of authors, reviewers, and publishers. Third, the rapidly evolving nature of Artificial Intelligence technologies may result in changes that are not fully captured within the scope of the available literature. Finally, the study provides a general overview of AI in academic publishing and does not focus on discipline-specific or region-specific publishing practices.

CONCEPTUAL FRAMEWORK:

The conceptual framework of the present study is designed to explain how Artificial Intelligence (AI) influences academic publishing and scholarly communication through ethical, inclusive, and sustainable dimensions. The framework is developed directly from the research objectives and is grounded in secondary data analysis.

Core Construct: Artificial Intelligence in Academic Publishing

At the centre of the framework is Artificial Intelligence, which represents AI-driven tools and technologies used in academic publishing, such as writing assistance, literature review automation, plagiarism detection, peer review support, citation analysis, and journal selection systems. AI acts as the primary driver influencing changes in scholarly communication practices.

Dimension-1: Role of AI in Scholarly Communication

AI influences the efficiency, quality, and speed of academic publishing by automating routine tasks and enhancing research productivity. This dimension explains how AI reshapes traditional publishing workflows and communication channels, forming the foundation of the framework.

Dimension-2 : Ethical Governance

Ethical governance acts as a mediating factor between AI adoption and scholarly outcomes. It includes aspects such as academic integrity, authorship transparency, accountability, bias control, and responsible disclosure of AI use. Strong ethical governance ensures that AI supports, rather than undermines, trust and credibility in academic publishing.

Dimension-3: Inclusivity and Access

Inclusivity represents another key mediating dimension in the framework. AI has the potential to enhance access to publishing opportunities for diverse groups of researchers, including non-native English speakers and scholars from resource-constrained institutions. However, unequal access to AI tools may create disparities. This dimension highlights the need for equitable access and capacity building.

Dimension-4: Sustainability and SDG Alignment

Sustainability forms the outcome-oriented dimension of the framework. AI-driven academic publishing contributes to sustainable development by supporting quality education, innovation, reduced inequalities, strong institutions, and global research partnerships. Alignment with Sustainable Development Goals ensures the long-term relevance and societal impact of scholarly communication.

Dimension-5: Responsible AI Practices

Responsible AI practices act as a moderating mechanism within the framework. These include institutional policies, ethical guidelines, training programs, human oversight, and regulatory compliance. Responsible practices strengthen ethical governance and inclusivity, leading to sustainable scholarly communication.

The conceptual framework of the present study explains the systematic relationship between Artificial Intelligence (AI), ethical governance, inclusivity, and sustainability in academic publishing and scholarly communication. The framework is developed based on the research objectives and highlights how AI-driven technologies influence scholarly publishing outcomes when supported by responsible and ethical practices. At the core of the framework lies Artificial Intelligence in academic publishing, which represents the use of AI-based tools and systems such as automated literature review tools, writing assistants, language editing software, plagiarism detection systems, peer review support tools, citation analysis platforms, and journal selection systems. These AI applications serve as the primary driving force behind changes in scholarly communication by enhancing efficiency, accuracy, and speed in research dissemination.

The first level of the framework focuses on the role of AI in scholarly communication. AI streamlines research workflows by assisting authors in preparing high-quality manuscripts, helping editors in initial screening processes, and supporting reviewers through automated checks. This transformation reduces publication delays, improves research visibility, and facilitates broader dissemination of academic knowledge. However, increased reliance on AI also necessitates careful monitoring to ensure that human judgment remains central to scholarly evaluation.

The second level of the framework emphasizes ethical governance as a crucial mediating factor between AI adoption and scholarly outcomes. Ethical governance includes academic integrity, transparency in AI usage, accountability for content creation, prevention of plagiarism, and mitigation of algorithmic bias. Ethical frameworks and institutional policies ensure that AI tools are used responsibly and that their involvement in academic publishing is clearly disclosed. This component of the framework reinforces trust in scholarly communication systems and safeguards the credibility of academic institutions.

The third level highlights inclusivity and access in scholarly communication. AI has the potential to democratize academic publishing by assisting non-native English speakers, early-career researchers, and scholars from under-resourced institutions through language support and digital publishing platforms. However, unequal access to AI technologies and digital infrastructure may create disparities. This

component of the framework stresses the importance of equitable access, training, and institutional support to ensure that AI-driven publishing benefits all researchers without reinforcing existing inequalities.

The final outcome of the framework is sustainable scholarly communication, which represents a publishing ecosystem that is ethical, inclusive, transparent, and future-oriented. AI-driven academic publishing contributes to sustainability by improving access to quality education, strengthening research infrastructure, reducing inequalities, enhancing institutional trust, and promoting global research collaboration. These outcomes are closely aligned with the United Nations Sustainable Development Goals, particularly SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), SDG 10 (Reduced Inequalities), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals).

Overall, the framework demonstrates that the successful integration of Artificial Intelligence into academic publishing depends not merely on technological advancement, but on the presence of strong ethical governance and inclusive practices. When AI adoption is guided by responsible policies, human oversight, and sustainability principles, it leads to a robust and trustworthy scholarly communication system. This conceptual framework provides a comprehensive foundation for understanding how AI can be effectively harnessed to achieve ethical, inclusive, and sustainable academic publishing in the AI era.

IMPORTANCE OF THE STUDY:

The importance of the present study lies in its comprehensive analysis of the role of Artificial Intelligence in academic publishing and scholarly communication in an era of rapid technological transformation. As AI tools increasingly influence research writing, peer review, and publishing processes, this study provides valuable insights into how such technologies can enhance efficiency while also raising critical ethical, inclusivity, and sustainability concerns. By focusing on secondary data, the study consolidates existing knowledge to highlight the need for responsible AI adoption that preserves academic integrity and institutional trust. The study is particularly significant in addressing inclusivity by examining how AI can support researchers from diverse linguistic and institutional backgrounds while also drawing attention to the risks of unequal access to advanced technologies. Furthermore, by aligning AI-driven academic publishing with the United Nations Sustainable Development Goals, the study emphasizes the broader societal relevance of scholarly communication in promoting quality education, innovation, reduced inequalities, and strong institutions. The findings and conceptual framework of this study offer practical value for researchers, academic institutions, publishers, and policy makers by supporting informed decision-making and contributing to the development of ethical, inclusive, and sustainable scholarly communication systems.

FINDINGS:

- ✓ Artificial Intelligence is widely used across various stages of academic publishing, including literature review, manuscript writing, language editing, plagiarism detection, peer review assistance, and citation management.
- ✓ The use of AI tools has significantly improved research efficiency, manuscript quality, and speed of publication, thereby enhancing overall scholarly productivity.

- ✓ Ethical issues such as authorship ambiguity, lack of transparency, algorithmic bias, and the risk of plagiarism and fabricated citations remain major concerns in AI-assisted academic publishing.
- ✓ Human oversight is essential in AI-supported publishing processes, particularly in peer review and editorial decision-making, to maintain academic integrity and credibility.
- ✓ AI tools have the potential to promote inclusivity by supporting non-native English speakers, early-career researchers, and scholars from resource-constrained institutions.
- ✓ Unequal access to advanced AI tools and digital infrastructure may create a new digital divide, limiting the inclusive benefits of AI in scholarly communication.
- ✓ AI-driven academic publishing contributes positively to sustainable development by supporting quality education, innovation in research infrastructure, reduced inequalities, and strong academic institutions.
- ✓ The alignment of AI-enabled scholarly communication with the United Nations Sustainable Development Goals enhances the societal relevance and long-term sustainability of academic publishing.
- ✓ Clear ethical guidelines, institutional policies, and responsible AI governance mechanisms are necessary to ensure the effective and ethical use of AI in academic publishing.
- ✓ The study confirms that the successful integration of AI in scholarly communication depends on a balanced human–AI collaboration model guided by ethics, inclusivity, and sustainability.

Suggestions:

- ❖ Academic institutions should develop clear policies and guidelines specifying acceptable and unacceptable uses of Artificial Intelligence in academic writing and publishing.
- ❖ Mandatory disclosure of AI tool usage should be introduced in research manuscripts to ensure transparency and maintain academic integrity.
- ❖ Publishers and editorial boards should ensure human oversight in critical processes such as peer review, editorial decisions, and plagiarism evaluation.
- ❖ Regular training and awareness programs should be conducted for researchers, editors, and reviewers on the ethical and responsible use of AI tools.
- ❖ Institutions should promote equitable access to AI tools by encouraging the use of open-source platforms and providing institutional support to under-resourced researchers.
- ❖ Ethical governance frameworks should be strengthened to address issues related to authorship, originality, algorithmic bias, and accountability in AI-assisted publishing.
- ❖ Academic institutions should integrate AI ethics and responsible research practices into research methodology and doctoral training programs.
- ❖ Collaboration between universities, publishers, and policy-making bodies should be encouraged to develop standardized AI governance practices aligned with global norms.
- ❖ Researchers should be encouraged to use AI as a supportive tool rather than a replacement for scholarly judgment and critical thinking.

- ❖ Future research should focus on empirical evaluation of AI's long-term impact on research quality, inclusivity, and sustainability in scholarly communication.

CONCLUSION:

The present study concludes that Artificial Intelligence is playing an increasingly significant role in transforming academic publishing and scholarly communication. AI-driven tools have enhanced efficiency, improved manuscript quality, accelerated publication processes, and strengthened research dissemination. By supporting activities such as literature review, writing assistance, plagiarism detection, peer review support, and citation management, AI has reshaped traditional publishing workflows and expanded the reach of scholarly communication.

However, the study also concludes that the integration of AI into academic publishing presents critical ethical and governance challenges. Issues related to authorship, transparency, algorithmic bias, and academic integrity highlight the need for strong ethical frameworks and human oversight. Without responsible governance, excessive reliance on AI tools may undermine trust in scholarly communication systems and academic institutions.

The findings further emphasize that Artificial Intelligence has considerable potential to promote inclusivity in scholarly communication by supporting non-native English speakers and researchers from resource-constrained institutions. At the same time, unequal access to advanced AI technologies poses a risk of widening the digital divide. Ensuring equitable access and institutional support is therefore essential to realize the inclusive benefits of AI in academic publishing.

Finally, the study underscores the importance of aligning AI-driven academic publishing with sustainable development goals. When guided by ethical governance, inclusivity, and responsible practices, AI can contribute meaningfully to quality education, innovation, reduced inequalities, strong institutions, and global research partnerships. The study concludes that a balanced human–AI collaboration model is crucial for building an ethical, inclusive, and sustainable scholarly communication ecosystem in the AI era.

SCOPE FOR FURTHER RESEARCH:

The present study provides a conceptual understanding of the role of Artificial Intelligence in academic publishing and scholarly communication based on secondary data. However, several avenues exist for further research in this area. Future studies may adopt primary data-based approaches, such as surveys or interviews with authors, reviewers, editors, and publishers, to examine real-time perceptions and experiences related to AI-assisted publishing. Comparative studies across disciplines, regions, or types of institutions can provide deeper insights into variations in AI adoption and its impact on research quality and inclusivity. Longitudinal research may be conducted to assess the long-term effects of AI on academic integrity, citation patterns, peer review quality, and institutional trust. Further research can also focus on developing and empirically testing AI governance models and ethical frameworks for academic publishing. Additionally, future studies may explore the role of emerging AI technologies in promoting open science, multilingual

publishing, and equitable access to scholarly communication, thereby strengthening the alignment between AI-driven academic publishing and sustainable development goals.

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