



EDITORIAL

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Academia & Derecho brings its readers articles on a wide range of topics, reflecting the concerns and debates of our time, and subject to analysis, review, and validation by peers and experts. With each new issue, we deliver to our readers high-quality scientific and academic work that is the result of the dedication and effort of authors and co-authors, as well as the careful review by external referee committee members and those serving as editors or on the editorial committee, contributing their knowledge and experience to each process.

Artificial Intelligence (AI) has made an unprecedented impact on scientific research. We are in the era of machine learning algorithms, data mining, and the automation of cognitive tasks, and AI has become an essential tool for researchers in all disciplines. However, this technological revolution raises new ethical challenges that must be approached with care and reflection. Scientific journals have a crucial role to play in promoting research ethics in a world increasingly driven by various forms of artificial intelligence.

In this regard, AI has radically transformed the way scientific research is conducted. From speeding up data analysis to automatically generating hypotheses, AI has proven to be a powerful tool for researchers. It has improved the accuracy of medical diagnoses, revolutionized research in the field of chemistry, and enabled impressive advances in many other fields of knowledge.

However, this revolution is not without ethical challenges. As AI becomes more ubiquitous in research, important questions arise about responsibility, privacy, algorithmic bias, and intellectual property. Scientific journals must be aware of these challenges and be willing to proactively address them.

One of the major ethical challenges of AI in research is the issue of responsibility. When machine learning algorithms are used to make decisions in research, who is responsible if something goes wrong? The researchers? The AI programmers? The scientific journals publishing the results? It is essential to establish clarity around responsibilities and the consequences of AI-based decisions.

Furthermore, AI is not immune to bias. Algorithms can learn biases from the data they are trained on, which could lead to biased or discriminatory outcomes. For example, in biomedical research,



an AI algorithm could have biases based on demographic data used in its training. Scientific journals must be aware of these risks and promote transparency in data collection and selection to minimize algorithmic bias in the research they publish.

Another significant ethical challenge is data privacy. AI often requires large amounts of data to function effectively. In scientific research, this may involve using sensitive personal and medical data. It is crucial to ensure that this data is used ethically and individuals' privacy is protected. Scientific journals should promote research practices that comply with privacy and ethical regulations, and encourage authors to be transparent about how data is collected, stored, and used in their research.

AI also raises questions about intellectual property and copyright. If AI significantly contributes to the generation of new knowledge or the creation of original works, who should be considered the author or co-author? How should copyright be managed in these circumstances? These issues need to be addressed to ensure fair distribution of credit and recognition to all contributors in research and the production of scientific content.

Instead of banning or censoring the use of AI in scientific research, we should focus on regulation and transparency. Scientific journals can play a crucial role in establishing clear ethical standards for AI-based research and demanding full disclosure of methods and algorithms used. This will enable proper peer review and ensure the integrity of the research published.

Scientific journals have a fundamental responsibility to address the ethical challenges of AI in research. They should lead in promoting ethical and transparent practices in an increasingly digital and automated environment. Here are some ways in which scientific journals can fulfill this responsibility:

Journals should develop robust ethical guidelines that address specific issues related to AI, such as data privacy, algorithmic bias, and responsibility.

They should require authors to provide comprehensive details about the methods and algorithms used in their AI-based research. This will enable proper review and evaluation of the validity of the results.

Similarly, journals should ensure that peer reviewers have the necessary knowledge to assess AI-based research. This may require training reviewers in AI-related topics, and journals can collaborate with AI ethics and regulation experts to develop suitable guidelines and standards for AI-based research.

Finally, scientific journals can contribute to educating and raising awareness within the scientific community about the ethical challenges of AI. This may include organizing conferences and workshops on research ethics in relation to the use of artificial intelligence.



In this way, AI is transforming scientific research in exciting but also ethically challenging ways. Scientific journals have a responsibility to lead in promoting ethical and transparent practices in AI-based research. It is not about prohibiting or censoring, but about understanding and regulating these tools for their proper use in the service of science, knowledge, and education. By proactively addressing the ethical challenges of AI, scientific journals can significantly contribute to ensuring that scientific research remains a trusted pillar in generating new knowledge in the digital age¹.

In light of the above reflection, we present the Academia & Derecho Journal - RA&D in its 27th edition, corresponding to the period from July to December 2023, with the assurance of presenting articles that will engage in critical discussions with strong foundations in each of their fields.

Finally, we remind our prospective authors that all articles submitted to our journal must follow the author guidelines, which can be found at the following link:
https://revistas.unilibre.edu.co/index.php/academia/directrices_autores

¹ The content of this editorial has been developed with the assistance of Chat Gpt's Artificial Intelligence. This tool was used for style correction, restructuring of the organization of ideas, orthographic and typographic recommendations, and translation of the document into English, French, and Portuguese. OpenAI (2023).: The New Ethical Challenges of Artificial Intelligence in Scientific Research. ChatGPT by OpenAI. URL: <https://chat.openai.com/c/dad52644-763d-461f-a6c6-6b1e152b21a5> [accessed on 05/20/2023].

The author of this editorial believes that the use of AI, such as Chat Gpt, can be suitable for streamlining or enhancing certain stages of the editorial process, such as document style correction or translation.