

## Current Approach to AI and Academic Integrity

Olha Petrova<sup>1\*</sup>, Mykola Petrov<sup>2</sup>

<sup>1</sup>Kharkiv National Medical University, 4 Nauki ave., Kharkiv, lingace@gmail.com

<sup>2</sup>V.N. Karazin Kharkiv National University, 4 Svobody Sq., Kharkiv, petrov2022mp11@student.karazin.ua

**Introduction.** Academic integrity as one of the pillars of ethical principles and rules concerning honest behavior in academic and scientific activity, avoiding plagiarism, has been recognized as an indicator of education and scientific research quality. More recently, it has acquired additional aspects related to the implementing artificial intelligence (AI) technologies into the common practice of working with text.

**The purpose of the work** is to reveal the main points in the current research relating to the ways of interaction of application of the artificial intelligence advances in education and research in the light of the academic integrity.

Rapid mainstreaming of various AI projects, e.g., different text-generating chatbots; AI or semi-AI assistants in academic writing and detection of spelling, grammar, and redundant words; research response generalizers; automatic article generators; paraphrasing tools (Chat-GPT, Grammarly, Consensus, Simplified, Quillbot, etc.) posed a task for the appropriate creation of online checkers, or AI text detectors for identifying artificially created texts (GPTZero, Skandy, etc.). The cited materials of recent conferences and published works demonstrate the concern of the Academia regarding the use or possibility of using AI as a replacement for human mental work in education and science. Recently, scientists and educators have spoken about the necessity of establishing ethical standards for artificial intelligence usage in instruction, scientific research, etc. [1]. The criticism includes opinion that even if not such ethical aspects of plagiarism and cheating, which are considered manifestations of academic dishonesty, the texts generated by Large Language Models operating in dialogue mode, such as neural models created by machine learning developed by OpenAI are not reliable and do not guarantee correctness and adequacy as required. We agree with the authors as for the importance of achieving a balance whereby AI enhances and supports, rather than disrupts, the learning process [2]. The limits of the use of AI in

work could be defined within the role of AI that can help in data collection and processing, i.e., artificial intelligence can be used in technical work, but in fact the main stage of creative work, creative design of thought, definition of the structure of scientific work must be human-made. The introduction of learning disciplines related to the use of artificial intelligence is of value, as it is clear that these technologies, AI tools will continue to develop and remain relevant.

**Conclusions.** AI can and should be a supplement to student learning, not a replacement. Educators should be learnt to be aware of the threatens for academic integrity due to potential unfair AI use. Students should be taught the ethics of original academic and scientific writing planning, execution and presentation. It is all the more important because the younger generation has grown up with the push of buttons while the long practice of distance education. Even more important is fostering an understanding of academic integrity as a basis for creating original work that has a certain novelty and, most importantly, is the result of human intellectual activity.

### References

1. Ethical guidelines on the use of artificial intelligence (AI) and data in teaching and learning for educators European Commission, Directorate-General for Education, Youth, Sport and Culture, Ethical guidelines on the use of artificial intelligence (AI) and data in teaching and learning for educators, Publications Office of the European Union. (2022). Retrieved from <https://op.europa.eu/en/publication-detail/-/publication/d81a0d54-5348-11ed-92ed-01aa75ed71a1/language-en>
2. Chami, G. (2023). Artificial intelligence and academic integrity: striking a balance. *Times Higher Education*. Retrieved from <https://www.timeshighereducation.com/campus/artificial-intelligence-and-academic-integrity-striking-balance>

**Keywords:** ethics of AI, original writing, academic integrity, students, educators