

ARTIFICIAL INTELLIGENCE: SPECIAL QUALITIES AND THEIR INFLUENCE

Maidanevych L. O.

Vinnitsia National Technical University, Vinnitsia

The paper examines the following special properties of artificial intelligence (AI): 1) imprecision; 2) dynamism; 3) emergence; 4) learning.

The imprecision of AI is due to algorithms that choose certain solutions based on probability. These solutions are formulated without “critical thinking” because AI does not have a “worldview” (which a person has). Currently, AI cannot analyze information as a person does. AI is a simulacrum of human mental activity and wisdom (without intuition). One of the main reasons for this is that human language is ambiguous, contextual and often contains emotional nuances that an algorithm is not able to adequately interpret (construe). Therefore, AI can misunderstand a request and give a “plausible” (from a human point of view) answer. AI imprecision is normal. Therefore, it is important for users to be critical of the generated data, check facts and refine requests to improve the accuracy of the results.

The dynamism of AI is due to algorithms that are able to quickly change, develop and adapt information processing to new conditions, tasks and technological challenges. This quality of AI has a significant impact on the concepts of culture, humanism and the history of the further development of humanity.

Emergence of AI is the ability to generate results that were not programmed, such as recognizing errors in its own answers, decisions, or simulating creative content.

AI training is conditioned by the transition from the “human – AI tool” model to the “human – AI partner” model. This is made possible by the ability of artificial intelligence to process information much faster than humans, which, according to V. Glushkov, is an indicator of how unevenly matter and energy are distributed across space and time, reflecting the transformations that take place during all natural processes.

Also, for our study, we should take into account the explanation of the concept referred to as “artificial intelligence” presented in the Concept of Development of Artificial Intelligence in Ukraine. These systems are capable of processing data – either acquired externally or generated internally – while utilizing relevant techniques and resources to accomplish defined objectives [1].

Results of this study can be used for further theoretical and practical understanding of the AI phenomenon, primarily by applying transdisciplinary and interdisciplinary approaches.

References (translated):

1. **Concept of development of artificial intelligence in Ukraine: *Order of the Cabinet of Ministers of Ukraine dated 02.12.2020 No. 1556-p*** [Electronic resource]. – Available at: <https://zakon.rada.gov.ua/go/1556-2020-%D1%80> (Accessed: 15 April 2025).