Asian Journal of Scientific Research and Innovations
ISSN: 2715-xxxx (online) | IF: 10.23 | Vol: 1, issue 1
Available: http://asiansciencejournal.org

# THEORETICAL FOUNDATIONS, ADVANTAGES AND ANALYSIS OF MODERN RISKS OF ARTIFICIAL INTELLIGENCE

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**Abstract:** The article analyzes the theoretical foundations, practical capabilities, and contemporary development trends of artificial intelligence from a philosophical and social perspective. It examines the advantages of artificial intelligence technologies, including large-scale data processing, automation, efficiency, and accuracy. At the same time, the article considers risks associated with job displacement, algorithmic errors, information security, and ethical responsibility. The experience of the United States, China, the European Union, Japan, and South Korea in the development of artificial intelligence is examined, along with the prospects for advancing these technologies in Uzbekistan. Particular attention is given to the relationship between artificial intelligence and the concepts of human thinking, consciousness, morality, and responsibility.

**Keywords:** artificial intelligence, philosophy, ethical issues, global experience, automation, digital transformation.

Digital transformation is bringing artificial intelligence into all spheres of social life. This article provides a scholarly analysis of the theoretical foundations of artificial intelligence, its practical applications, global experiences, ethical and moral challenges, and prospects for its development in Uzbekistan.

Artificial intelligence is not only a technological achievement but also a subject of philosophical and ethical debates. It is expanding the possibilities of imitating human intelligence, making autonomous decisions, processing information, and conducting analysis. Therefore, contemporary scholarly approaches study artificial intelligence not merely as a set of algorithms, but as an important phenomenon closely connected with the concepts of thinking, consciousness, morality, and responsibility.

**Theoretical Foundations Of Artificial Intelligence**

The term “Artificial Intelligence” (AI) was first proposed by John McCarthy at a scientific conference held at Dartmouth University in 1956. While early AI models operated through logical algorithms, mathematical models, and symbolic programming, contemporary systems function on the basis of advanced methods such as machine learning, deep neural networks, and generative AI.

**Alan Turing’s “Turing Test,” which proposed a way of determining whether machines could be considered “intelligent,” marked the beginning of a new era in science.**

**Practical Advantages And Disadvantages**

Advantages of AI technologies:

- Speed and accuracy of operations
- Processing large databases
- Continuous 24/7 operation

• Automation and optimization

Disadvantages of AI technologies:

**• Reduction in employment opportunities**

• Incorrect or discriminatory algorithmic decisions

• Threats to information security

• Ethical risks arising from the imitation of human behavior

GLOBAL EXPERIENCE

Today, artificial intelligence technologies are receiving strategic-level attention from technologically advanced countries. The following examples clearly demonstrate this:

• USA: AI-based products developed by OpenAI, including ChatGPT, as well as Google DeepMind and IBM Watson, occupy prominent positions globally.

Special documents addressing AI legislation and ethical issues have also been developed in the United States.

• China: The use of AI in facial recognition, video surveillance, and medicine is widespread. China views AI as a tool of public administration.

• European Union: Through the "AI Ethics Code" adopted in 2021, the European Union developed legal and ethical criteria for the use of artificial intelligence.

• Japan and South Korea: AI and robotics are being actively introduced into industry and everyday life.

**All of these examples demonstrate the place that artificial intelligence is taking in the global economic and social environment.**

DEVELOPMENT OF ARTIFICIAL INTELLIGENCE IN UZBEKISTAN

In the Republic of Uzbekistan, state policy concerning artificial intelligence is being implemented through the "Digital Uzbekistan – 2030" strategy. Within this framework, the following areas are of particular importance:

• IT Park — a platform for the development of digital technologies.

• "One Million Programmers" project — promoting coding among young people.

• Youth technoparks — spaces where innovative products are being developed.

• Artificial intelligence centers — modern institutions conducting scientific research.

**In addition, pilot projects are being implemented to gradually introduce AI technologies into healthcare, education, and public administration.**

**Ethical And Moral Issues**

The rapid development of AI is creating a number of ethical challenges:

• Lack of transparency in AI decisions — can a machine determine the fate of human life?

• AI appearing in human-like forms — the problem of consciousness and conscious activity.

• Who is responsible? — who should be held accountable for an incorrect AI decision?

**Such questions constitute important problems for philosophy and ethical thought.**

Humanity should focus not on becoming equal to AI, but on developing effective mechanisms for managing and controlling it.

**Conclusion**

Artificial intelligence is a product of human thought, and its development should be based on scientific, ethical, and social criteria. Along with making full use of its advantages, it is necessary to control and manage its potential risks. Policies and practices concerning artificial intelligence should include not only a technological approach but also a humanitarian one.

In Uzbekistan, efforts in this direction are being carried out in an appropriate manner. In the future, strengthening cooperation among the scientific community, policymakers, and technologists can help ensure that AI develops in a sustainable and human-centered direction.

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