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THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE IN THE MODERN ECONOMY

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Abstract. The active development of digitalization in all society areas, as well as managerial decision-making processes, necessitates the large data amounts processing, which requires significant computing power and automation of typical algorithmic structural elements, which explains the relevance of the artificial intelligence technologies analysis. The aim of this article is the main trends review in the development of artificial intelligence in today's economic environment, both in Russia and abroad. The article analyzes the foreign experience of introducing artificial intelligence technologies into the practice of research on socio-economic processes. The experience of such large foreign corporations as Amazon, Google, Microsoft, which are actively introducing artificial intelligence into business practices, is analyzed and described. The relevance of the machine learning development in the modern Russian economy is proved based on the analysis of foreign experience. The second part of the article examines the most successful domestic companies' experience which are using artificial intelligence technologies. It was revealed that despite the active use of these technologies, Russian companies are not actively engaged in patent activities. The article defines current trends in the use of artificial intelligence and trends in its further development.

Keywords: artificial intelligence; socio-economic processes; artificial neural networks; evolutionary algorithm; automation of control processes; big data.

JEL codes: O31, O33.

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