MODERN TRENDS IN THE DEVELOPMENT
OF ARTIFICIAL INTELLIGENCE

A.D. VISLOVA

Federal public budgetary scientific establishment «Federal scientific center
«Kabardin-Balkar Scientific Center of the Russian Academy of Sciences»
360002, KBR, Nalchik, 2, Balkarova street E-
mail: kbncran@mail.ru

The article is devoted to pressing issues of creating artificial intelligence (AI). Definitions are given to the concepts of "intelligence" and "artificial intelligence". The main scientific schools that have made a significant contribution to the study of AI are described. The main trends associated with the introduction of artificial intelligence technologies in the socio-economic life of society are analyzed. The content of social and economic problems due to the transition to a new technological structure and the role of intelligent systems in this context is disclosed. The review of new AI technologies used in economics, healthcare, transport, etc. is presented. Special emphasis is placed on the development of applied and universal AI. The questions of the relationship between natural and artificial intelligence are raised. The author considers not only the positive potential of AI, but also draws attention to the possible risks and threats of the impact of technological developments on the development of modern society. It is emphasized, that these risks must be studied and warned about in a timely manner. The key role of AI in cyborgization and hybridization is noted. The importance of the ethical and legal examination of AI models for their safety for humans is shown. The idea of increasing the social responsibility of both researchers and the engineering corps in the creation and use of AI technologies in all areas of the socio-economic system is substantiated.

Keywords: artificial intelligence, psychology of artificial intelligence, intelligent robotic systems, technological structure, innovative technologies, digital technologies, superintelligence, neural networks, cyborgization, hybridization, risk, ethics, interdisciplinary paradigm.

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