

Висновки.

Методика викладання іноземної мови в закладах МВС має свої специфічні особливості, зумовлені професійною спрямованістю підготовки та особливостями організації освітнього процесу. Ефективність навчання забезпечується використанням комплексу сучасних методів та форм роботи, спрямованих на формування практичних комунікативних навичок у професійній сфері.

Подальший розвиток методики викладання іноземної мови в закладах МВС потребує постійного вдосконалення навчально-методичного забезпечення, впровадження інноваційних технологій та розширення міжнародного співробітництва. Це дозволить підготувати висококваліфікованих фахівців, здатних ефективно виконувати службові завдання в умовах міжнародної інтеграції та глобалізації правоохоронної діяльності.

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Hybrid AI for innovational management of education during crisis times

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Abstract. This paper examines how hybrid artificial intelligence (AI) can transform educational management during crises. Traditional management models are often insufficient in today's high-turbulence environment, making innovative approaches necessary. Hybrid AI combines symbolic methods for transparency with subsymbolic methods for data analysis. This integration provides both analytical power and explainability, which is highly valuable for educational management. Ultimately, hybrid AI can shift education management from a reactive to a proactive model, creating a more sustainable educational environment.

Keywords: innovational management, educational management, artificial intelligence, hybridization.

Introduction.

Modern organizations operate in conditions of high turbulence and uncertainty [1]. Economic shocks, political instability, technological challenges and social changes create crisis situations [2], which significantly affect the effectiveness of traditional management models [3]. Classical approaches based on planning and sustainability often prove insufficient in crisis conditions [4], since they do not imply high flexibility and the ability to quickly adapt [5].

In these conditions, innovative management becomes especially relevant - a system of management decisions and methods based on the introduction of new technologies, flexible organizational structures and non-standard strategies [6], [7]. Innovative management during a crisis involves [8]: prompt decision-making based on data analysis and forecasting; use of digital technologies, including artificial intelligence and process automation; implementation of creative approaches to resource allocation and risk management; development of adaptive leadership and teamwork; focus on long-term sustainability through innovation [9].

Thus, the crisis acts not only as a destabilizing factor [10], but also as a catalyst for innovation processes, stimulating the search for new forms of management and the transformation of existing systems [11].

In the long term, innovation management becomes not only a tool for anti-crisis regulation [12], but also the basis for the formation of a sustainable and adaptive organization capable of functioning effectively in conditions of constant change [13].

The Main Part.

The modern education system is developing in the context of increasing global instability, which manifests itself in economic crises, political conflicts, technological transformations and social challenges. These factors significantly affect the functioning of educational institutions and require a search for new management models that can quickly adapt to changing circumstances. Traditional methods of education management are often insufficient to ensure sustainability and efficiency in times of crisis, which emphasizes the need to introduce innovative approaches.

One of the most promising tools in this area is hybrid artificial intelligence (AI), which combines symbolic and subsymbolic methods of information processing [14]. Symbolic AI is based on logic, rules and expert systems, which ensures transparency of decision-making and interpretability of models [15], [16]. Subsymbolic AI, which includes machine learning methods, neural networks and evolutionary algorithms, allows you to analyze large amounts of data, identify hidden patterns and make forecasts in conditions of uncertainty [17]. Their integration forms a new type of intelligent systems that have both analytical power and explainability, which makes them especially valuable for educational management [18]. The introduction of hybrid AI in educational management opens up the possibility of: predicting risks and early detection of crisis trends; developing adaptive strategies for the development of educational institutions; personalizing the educational trajectories of students; optimizing the allocation

of resources in the face of constraints; supporting management decisions based on real-time data. Thus, the use of hybrid AI becomes not only a technological innovation, but also a strategic direction for the modernization of educational systems, increasing their resilience and ability to develop in times of crisis.

Conclusions.

Analysis of the capabilities of hybrid artificial intelligence has shown its high potential for transforming the education management system in unstable and crisis times. The combination of symbolic and subsymbolic methods allows for the formation of solutions that combine the accuracy of big data analysis with the transparency and explainability of models. This is critical for educational management, where management decisions must not only be effective, but also justified for various stakeholders.

The main results of applying hybrid AI in educational management are as follows: increasing the sustainability of educational organizations by predicting crisis phenomena and responding to them in a timely manner; improving the quality of management decisions based on complex data processing and expert knowledge; personalization of educational processes, which allows for a flexible response to the individual needs of students; optimization of resource use in conditions of limited and unstable conditions; formation of innovative development strategies that are based on data and have a proactive nature.

In the future, hybrid artificial intelligence can become a key element of innovative educational management. Its implementation will ensure the transition from reactive management models aimed at eliminating the consequences of crises to proactive models capable of preventing negative trends and creating a sustainable educational environment. Thus, hybrid AI is not just a technological tool, but a foundation for building a new paradigm of education management in the context of global challenges and instability.

Discussion.

In the context of anti-crisis management of education in Ukraine, it is important to identify precursors of crisis phenomena, which allows predicting problems such as a decrease in the quality of services or financial instability of institutions. Nonlinear dynamics modeling methods take into account that even minor changes in financing or demography can cause significant shifts in the system [19]. The use of synergistic and econophysical approaches [20] helps to analyze the processes of self-organization of educational institutions and predict critical points of development. The application of systemic methodology [21] allows for a comprehensive assessment of economic, social and technological factors and the formation of strategic solutions to increase the stability of the educational sphere in conditions of instability.

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