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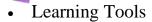
Annotation. The article explores the integration of modern Information and Communication Technologies (ICT) and Artificial Intelligence (AI) into the educational process, highlighting their potential to enhance teaching and learning experiences. The authors discuss various innovative approaches that leverage ICT and AI tools, such as personalized learning environments, adaptive educational software, and intelligent tutoring systems, to improve the effectiveness and accessibility of education. Key benefits, including increased engagement, individualized learning paths, and efficient assessment methods, are thoroughly examined. Additionally, the article addresses the challenges and barriers to implementing these technologies, such as the digital divide, the need for teacher training, and concerns about data privacy. The authors conclude by emphasizing the importance of ongoing research and development in AI and ICT to create more dynamic, inclusive, and responsive educational systems.

Introduction. Today, the education system is undergoing significant changes worldwide. Modern information and communication technologies (ICT) and artificial intelligence (AI) can serve as crucial tools for making education more effective and transparent. These technologies create opportunities for modernizing the learning process, meeting the individual needs of students, improving the quality of education, and developing new pedagogical approaches.

Keywords in English:

- Modern Information and Communication Technologies (ICT)
- Artificial Intelligence (AI)
- Education Process
- Educational Improvement
- Personalized Learning

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- Interactive Learning
- Online Education
- Educational Resources
- AI in Education
- ICT in Education
- Teaching Strategies
- Student Performance Analysis
- Learning Efficiency
- Educational Quality
- Pedagogical Approaches

ICT plays a key role in the education system by fulfilling various functions. Computers, the internet, and mobile devices have significantly eased communication between students and teachers. Electronic learning platforms, interactive textbooks, online courses, and video conferences help strengthen the learning process. With the help of ICT, teachers can conduct lessons in a more engaging and effective manner. For example, interactive whiteboards and smartphones can be used to present educational material, conduct real-time online tests, and organize group work over the internet.

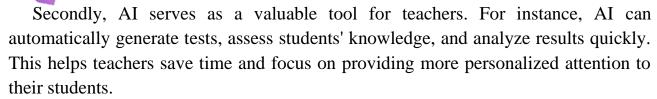
Additionally, ICT allows students to make broader use of educational resources. For instance, students can quickly find lesson materials, read scientific articles, and independently learn new information through the internet. These opportunities help make education more effective on a global scale, as students can access knowledge from different countries.

Since the introduction of AI into the education system, the learning methods of students and teaching strategies have undergone significant changes. AI can work effectively in all areas of education, including teaching, assessment, analysis, and creating individualized approaches.

Firstly, AI-based systems can automatically analyze students' academic activities and provide personalized suggestions and recommendations. For example, AI can identify the strengths and weaknesses of students, track their knowledge levels, and offer the most suitable learning programs. As a result, students can organize their learning process in a way that suits them best.



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The use of ICT and AI in education allows for the implementation of individualized learning, which greatly improves students' learning outcomes. Students can choose learning materials based on their personal needs and abilities. For example, some students may prefer textual materials, while others may prefer videos or interactive lessons. With AI, students' interests and learning methods can be identified, and the most appropriate learning programs can be recommended to them.

Furthermore, AI can analyze students' achievements and offer them tailored exercises. This helps students improve their learning efficiency.

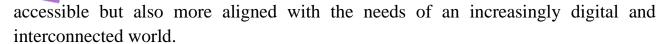
Conclusion

Modern information and communication technologies, along with artificial intelligence, play a crucial role in improving the educational process. These technologies create opportunities for personalized learning, enhance the effectiveness of education, and contribute to the overall quality of education. In the future, the education system will continue to evolve and be shaped by new pedagogical approaches and innovative technologies. Therefore, the effective use of ICT and AI in education is essential for enhancing educational effectiveness worldwide.

In conclusion, the integration of modern Information and Communication Technologies (ICT) and Artificial Intelligence (AI) has the potential to significantly transform and improve the educational process. By incorporating these advanced technologies, education systems can become more adaptive, personalized, and inclusive, offering tailored learning experiences that meet the diverse needs of students. ICT and AI have the power to enhance engagement, streamline assessment methods, and provide real-time feedback, ultimately fostering a more efficient and effective learning environment. However, the successful implementation of these technologies requires addressing challenges such as unequal access to resources, the need for professional development for educators, and ensuring the ethical use of data. Moving forward, it is crucial to continue fostering innovation, collaboration, and research in these fields to realize their full potential in shaping the future of education. The continuous evolution of ICT and AI promises a future where education is not only more

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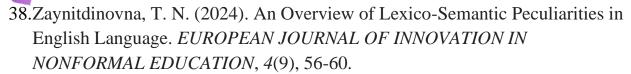
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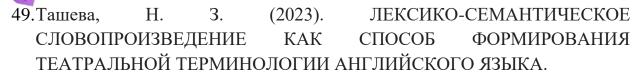
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