

## THE RELEVANCE OF BLOCKCHAIN TECHNOLOGY IN EDUCATION

*Xiong Jianhao* (Mogilev State A. Kuleshov University)

Scientific supervisor *E. I. Snopkova*,  
doctor of pedagogical sciences, professor

Modern education in China is going through a critical period of digital transformation, facing many serious challenges and unprecedented opportunities for development. With the rapid development of information technology, the informatization of education has become an inevitable trend in the development of education[1; 2].

This study aims to deeply analyze the theoretical basis and innovative methods of the application of blockchain technology in modern education in China. Through exploring its application in key areas such as educational resource allocation, degree authentication, and data security, it reveals the transformative potential of blockchain technology for education and provides solid theoretical support and feasible practical guidance for promoting the innovative development of modern education in China.

From a theoretical perspective, blockchain technology, as an emerging technological paradigm, has injected new vitality into the development of educational theory through its deep integration with the field of education. In depth research on the application of blockchain technology in education can help enrich the theoretical system of educational technology, expand the research scope of educational informatization, and provide new research ideas and analytical frameworks for understanding the essence, functions, and development laws of education from multidisciplinary perspectives such as technological philosophy, educational economics, and educational sociology. By delving into the theoretical foundation of blockchain technology in education, we can uncover its impact mechanisms on education equity, quality, and management, providing a theoretical basis for building an education theory system that adapts to the digital age.

## References

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