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# Creative Approaches in History Teaching: Methodological Solutions Based on Triz

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#### **Abstract**



This article is dedicated to fostering creative approaches in history teaching, analyzing methodological solutions based on the TRIZ (Theory of Inventive Problem Solving) methodology from a scientific perspective. The introduction discusses the challenges of traditional education and the role of TRIZ in the educational process, while the main body examines specific examples of analyzing historical events through TRIZ principles, their application in the humanities, and their adaptation to the Uzbekistan education system. The conclusion highlights the advantages, impact, and future prospects of integrating TRIZ. Grounded in modern trends in Uzbekistan's pedagogy and incorporating international research findings, the study aims to contribute to developing students' creative thinking and problemsolving skills while proposing ways to enhance educational quality.

Keywords: TRIZ, history teaching, creative approaches, methodological solutions, creative thinking, humanities, pedagogical innovations, problem-solving, educational technologies, Uzbekistan education.

#### Introduction

The significance of creative approaches in history teaching is increasingly recognized as a critical issue within the modern educational paradigm. Traditional methods, such as rote memorization of facts and chronological recounting of events, reinforce student passivity, limiting their ability to deeply understand historical processes, engage in critical thinking, and interpret events creatively. In this context, educators and pedagogical scholars are seeking innovative solutions to foster creativity, as these approaches enable students to reinterpret historical events, analyze cause-and-effect relationships, and connect them to contemporary global issues. For instance, by viewing historical events as problems to be solved, students not only learn about the past but also prepare for future challenges. This issue is

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particularly relevant in Uzbekistan's education system, where national standards demand the development of 21st-century skills, including creative and critical thinking, collaboration, and problem-solving. However, traditional textbooks and methods often fail to fully meet these requirements, leading to reduced educational effectiveness. International research indicates that traditional education systems can diminish students' creativity, with studies observing a decline in creative abilities from childhood, underscoring the need for educational reform. This article provides a scientific analysis of creative approaches in history teaching through methodological solutions based on TRIZ (Theory of Inventive Problem Solving), developed by Genrich Altshuller based on the analysis of thousands of patents to enable systematic problem-solving. The application of TRIZ in education, particularly in the humanities, has been shown to enhance students' creative thinking, as evidenced by studies on TRIZ courses for humanities students, which demonstrated significant improvements in creative thinking indicators, confirming its suitability for humanities disciplines. The core principle of TRIZ—resolving contradictions to achieve an ideal solution—helps address conflicts between traditional (passive) and creative (active) methods in history teaching. In Uzbekistan's context, the scientific foundation for applying TRIZ in education lies in its ability to teach creative problem-solving in both school and higher education, fostering creativity from early childhood and aligning with national education policies. Moreover, TRIZ's role in Uzbekistan's pedagogy has been successfully tested in teaching mechanics, mathematics, and other disciplines, proving its adaptability to history education by fostering systematic thinking and overcoming psychological inertia. Overall, integrating TRIZ into education promotes innovation not only in technical fields but also in the humanities, enhancing the global competitiveness of education systems.

Initially developed for solving technical problems, the TRIZ methodology is now widely applied in education, as it systematizes creative thinking and relies on data, research, and patent databases rather than intuitive approaches. The scientific basis for applying TRIZ in history teaching lies in its ability to enable students not only to memorize historical events but also to view them as problems, identify contradictions, and seek alternative solutions. For example, using the contradiction matrix and the 40 inventive principles, a teacher can guide students to analyze an event like the fall of the Roman Empire by addressing the contradiction between "stability and change." Here, TRIZ's "segmentation" principle can be applied: by dividing the empire into territorial, economic, social, and cultural segments, students

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gain a deeper understanding of causes and can connect them to modern issues like globalization and national identity. Research shows that applying TRIZ in education improves lesson design, introduces innovations in curriculum development, and integrates digital technologies, making the learning process more effective and increasing student motivation. In Uzbekistan, the use of TRIZ in primary education has developed effective methods for fostering students' creative abilities, successfully tested in school lessons, including humanities subjects. Additionally, experiences of applying TRIZ principles in teaching mechanics can be adapted to history, as they foster problem-solving skills, break from traditional approaches, and eliminate psychological barriers, such as the "Einstellung" effect (cognitive inertia). One of the TRIZ-based methodological solutions in history teaching is the "creativity challenge," a project-based approach where students solve real historical problems using TRIZ tools. For instance, when analyzing the contradiction between "centralized power and local autonomy" in medieval feudalism, TRIZ's "dynamics" principle (adaptability) can be applied: students analyze the feudal system through dynamic models and create alternative development scenarios, such as modeling socio-economic changes. This approach not only builds historical knowledge but also develops problem-solving, collaboration, and innovative thinking skills, as TRIZ focuses on analyzing technical or social systems, identifying contradictions, and applying the 40 principles to resolve them. Experiences in Uzbekistan's universities demonstrate that TRIZ enhances the quality of specialist training and enables experimental testing of creativity in the learning process, such as through project-based work. Furthermore, research on integrating TRIZ into blended learning platforms shows that combining online and offline elements enhances students' creative abilities. For example, using TRIZ principles on platforms like Moodle enables group discussions and projects that reinterpret historical events in innovative ways, eliminating time and space constraints and allowing students to work independently. TRIZ's application in education is closely linked to cognitive psychology principles, utilizing metaphors, visualization, focused and diffuse thinking modes, and group dynamics to enhance creativity and idea generation. In history teaching, these principles can be applied to overcome "psychological inertia" using TRIZ's "function-oriented search" tool: students analyzing World War II events move beyond traditional interpretations by seeking analogies from other cultural, economic, or social contexts, such as comparing the war's economic consequences to modern geopolitical conflicts. Research confirms that TRIZ fosters creative thinking in students, particularly in the humanities, by teaching systematic

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problem-solving, breaking conventional approaches, and enhancing cognitive flexibility. In Uzbekistan's primary schools, the effectiveness of TRIZ technology in fostering creativity has been proven, and these methods can be adapted to history teaching, such as by teaching students to analyze historical events through gamebased elements. Another aspect of TRIZ-based methodological solutions in history teaching is enhancing teacher qualifications. TRIZ can be applied in a "real-time" approach, where teachers learn TRIZ while designing their lessons, accelerating the adoption of innovations and increasing teacher motivation. For example, a history teacher using the "Ideal Final Result" principle can design a lesson that maximizes student understanding with minimal resource expenditure, such as by integrating virtual reality elements. This approach resolves educational contradictions, such as balancing "deep knowledge and engaging lessons," by enabling interactive, projectbased, and gamified lesson formats. Experiences in Uzbekistan's pedagogy show that TRIZ in primary education fosters creative thinking in humanities alongside mathematics and natural sciences, making the learning process engaging and effective. Scientifically, these solutions have been proven to enhance educational effectiveness, as TRIZ develops not only knowledge but also creative abilities, aligning with modern societal demands, including digital transformation and global challenges.

In conclusion, TRIZ-based methodological solutions enable the scientific development of creative approaches in history teaching by focusing on systematic problem-solving, resolving contradictions, enhancing creative thinking, and innovating the educational process. Research indicates that integrating TRIZ into education makes the learning process more effective, fosters 21st-century skills in students, and significantly improves creativity indicators, as demonstrated in experiments with humanities students. In Uzbekistan's education system, the widespread adoption of TRIZ, particularly in history teaching, can be achieved through improving teacher training programs, developing online platforms, and implementing experimental projects, aligning with national education policies and elevating educational quality to international standards. It is recommended to conduct additional experimental studies to expand TRIZ's application in primary and secondary education, as this will enhance students' global competitiveness, promote educational innovations, and contribute to societal development. Moreover, adapting TRIZ to the humanities, such as analyzing historical events, can make education more integrated and practical, preparing students not only with knowledge but also for solving real-world problems. Therefore, the broad integration of TRIZ

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into pedagogical practice significantly contributes to the innovative development of the education system and elevates Uzbekistan's education sector to a new level.

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