

Innovative Expression and Multi-Dimensional Interpretation of Traditional Culture in Digital Media Education Platform

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Abstract. With the rapid development of digital technology, digital media education platforms have become an important way to inherit and innovatively express traditional culture. This paper aims to explore how to promote the dissemination and inheritance of traditional culture through innovative expressions and multi-dimensional interpretations in digital media education platforms. Through technologies such as virtual reality (VR), augmented reality (AR), and interactive multimedia, traditional culture is no longer limited to the form of books and lectures, but is presented in a more vivid and immersive way, which enhances the sense of participation and interactivity of cultural education. At the same time, digital platforms provide traditional culture with interpretation methods from multiple dimensions such as history, society, art, and emotion, allowing traditional culture to be understood and recreated from different angles. This paper also analyzes the challenges and countermeasures faced by digitalization in cultural communication, and puts forward suggestions for promoting the digital dissemination of traditional culture and improving the innovation capabilities of the platform. Research shows that digital media education platforms can not only provide a platform for the modern expression of traditional culture, but also enhance the vitality and dissemination value of culture through multi-dimensional interpretation.

Keywords: Digital Media; Education Platform; Traditional Culture; Innovative Expression; Multi-Dimensional Interpretation; Virtual Reality; Augmented Reality.

1. Introduction

In today's digital age, the inheritance and innovation of traditional culture face unprecedented opportunities and challenges. With the rapid development of information technology, digital media education platforms, as a new form of cultural communication and education, are gradually becoming an important bridge connecting traditional culture and modern society. Traditional culture, as a precious heritage in the long river of human history, carries rich ideological, artistic and social values. However, in the process of modernization, the inheritance of traditional culture faces increasingly severe tests, especially among the younger generation, where the sense of identity and inheritance of traditional culture is gradually weakening. In order to break this dilemma, the introduction of digital technology provides new possibilities for the innovative expression and multi-dimensional interpretation of traditional culture, especially in the field of education [1]. Through digital media education platforms, traditional culture can not only be presented in a more vivid and intuitive form, but also can be stimulated through innovative expressions. Interest and cognition of learners in traditional culture, thereby promoting its dissemination across time and space.

The rise of digital media education platforms has opened up a new path for the dissemination of traditional culture. By combining technologies such as VR, AR, and interactive multimedia, the education method of traditional culture has gradually shifted from traditional classroom teaching to a more open, flexible and creative multi-dimensional display [2]. This innovative education model not only breaks the time and space limitations of cultural communication in the past, but also provides learners with a personalized and participatory learning experience. The classic elements of traditional culture, such as ancient literature, folk art, historical sites, etc., are no longer cold texts or images in the presentation of digital platforms, but living cultural scenes and interactive content, which greatly enhances learners' perception and sense of participation in traditional culture.

At the same time, the digital media education platform is not only a display platform for cultural content, but also a space for cultural interpretation and re-creation. Through the multi-dimensional application of digital technology, the interpretation of traditional culture has shifted from a single text

explanation to a multi-dimensional interpretation from multiple angles such as history, art, society and emotion. This way of interpretation not only allows the connotation of traditional culture to be more comprehensively displayed, but also prompts learners to understand and experience the unique value and modern significance of culture from different perspectives. Therefore, how to express traditional culture innovatively through digital media platforms and how to conduct profound cultural interpretation from multiple dimensions have become important issues that need to be urgently solved in current research and practice [3].

In short, the digital media education platform not only brings new vitality to the dissemination of traditional culture, but also provides a solid foundation for the innovation and inheritance of cultural education. Through the innovative application of digital technology, the education of traditional culture has shown unprecedented diversity and interactivity. The following research will explore how to achieve innovative expression and multi-dimensional interpretation of traditional culture in digital media education platforms, how to promote the inheritance and development of traditional culture through these platforms, and promote the innovation and regeneration of culture in modern society.

2. Overview of Digital Media Education Platform

Digital media education platform refers to a virtual platform built with digital technology and network technology, with education as its core function. Its basic composition includes hardware equipment, operating system, application software and online services, which can provide learning resources, interactive communication and knowledge transfer through the Internet. These platforms not only support online classrooms and distance learning, but also integrate various teaching content and resources to provide personalized learning experience. The characteristics of digital media education platform are its openness and interactivity [4]. Learners can choose learning content, methods and time on the platform, which greatly improves the flexibility and accessibility of education. At the same time, these platforms support the integration of multiple teaching tools, such as video, audio, text, images and real-time interaction, which can comprehensively enrich the form of education and improve learning effects. With the advancement of information technology, digital media education platform has gradually developed from traditional teaching tools to comprehensive education service platform. In the future, it will be more intelligent and personalized, and combined with emerging technologies such as big data and artificial intelligence, providing a broader innovation space for traditional education.

In terms of the application status and development trend in education, the application of digital media education platform has penetrated into various educational environments. From primary school to university, and then to adult continuing education and vocational training, various forms of education are gradually using digital platforms to achieve resource sharing and interactive learning. Especially with the rise of online education, digital platforms have broken the time and space limitations of traditional education, providing learners from different regions and levels with convenient learning methods [5]. In recent years, platform-based education has gradually developed in depth, and more and more educational institutions and enterprises have begun to pay attention to the integration of educational resources. The platform not only assumes the function of content delivery, but also provides personalized learning path design and evaluation feedback system. In the future, the development trend of digital media education platforms will include more intelligent learning tools, such as intelligent recommendation systems based on artificial intelligence, automated evaluation systems, and personalized teaching content customization.

For traditional culture, digital transformation is an important trend. The background of the digital transformation of traditional culture stems from the need to protect cultural diversity in the process of globalization. With the advent of the information age, traditional culture faces the risk of being forgotten. Therefore, digitizing traditional culture can not only effectively preserve and disseminate cultural heritage, but also adapt it to the development needs of the new era [6]. The digital transformation of traditional culture is not only about converting cultural content into digital format,

but also about giving it new vitality while using digital technology. Through digitization, traditional art forms, ancient books and documents, historical sites, etc. can be more conveniently stored in digital databases and widely disseminated through network technology. Digital technology also provides a new way of expression for traditional cultural education, so that cultural inheritance is not limited to traditional channels such as museums and classrooms, but can be easily spread to all parts of the world through various online platforms, interactive applications and multimedia displays [7].

How digital technology supports the dissemination of traditional culture is mainly reflected in its diversified dissemination methods and wide audience groups. Through digital technology, the content of traditional culture can not only quickly break the limitations of region and time, but also be personalized according to the needs of different groups. Using VR and AR technology, users can experience traditional cultural scenes in person; through social media platforms and short videos, traditional culture can be spread to more young groups in a vivid and interactive way; digital content can also expand the boundaries of cultural dissemination through various cross-platform applications [8]. Digital technology not only improves the dissemination efficiency of traditional culture, but also helps it maintain a close connection with modern social culture and promotes cultural innovation and regeneration. Through these technical means, traditional culture is no longer a legacy of the past, but a cultural form that is vibrant and can adapt to future development.

3. Innovative Ways of Expressing Traditional Culture

In digital media education platforms, innovative expressions of traditional culture are realized through a variety of technical means, and the application of VR and AR technologies is particularly important. VR and AR technologies provide a new way of displaying traditional culture, allowing users to deeply feel and participate in the scenes of traditional culture through immersive experience. Using VR technology, users can "walk into" ancient palaces, visit historical sites, and experience traditional festivals, while AR technology can superimpose historical figures, classic works of art or cultural scenes in the real world through smart devices. [9] Such an experience not only enhances the fun of cultural education, but also greatly enhances the interactivity and sense of participation in cultural learning. The innovative way of immersive experience makes traditional culture no longer abstract knowledge, but becomes concrete and vivid, which stimulates users' interest in and understanding of traditional culture.

At the same time, the importance of interactive and participatory expression in digital media education platforms has become increasingly prominent. By designing interactive links, online education platforms allow learners to no longer be passive recipients, but to actively participate in the cultural learning process. In the study of traditional culture, interactive design can guide learners to actively participate through questions and answers, games, virtual character dialogues, etc., and even enable them to understand the background and connotation of culture in context through role-playing. This not only deepens learners' memory of traditional culture, but also makes cultural education no longer a one-way communication, but a two-way or even multi-directional communication. On this platform, users can not only acquire knowledge through learning and interacting with traditional culture, but also share each other's understanding and experience with other users around the world, thus forming a sense of cultural identity in the context of globalization.

Multimedia and cross-platform expression are also important components of innovative traditional cultural expression. Through the combination of multimedia elements such as images, audio, and video, traditional culture can be presented under the stimulation of multiple senses. For example, through high-definition videos, traditional dances, dramas and other art forms are vividly reproduced, and through audio, ancient poetry, music and other cultural heritage are presented in their original flavor. With images and text explanations, users can be provided with a full range of cultural experiences. The integration of these elements can enable traditional culture to be deeply disseminated in multiple dimensions such as vision and hearing [10]. Cross-platform communication allows the learning and display of traditional culture to break through the limitations of a single

platform. Whether on mobile devices, PCs or smart TVs, users can learn and experience culture anytime and anywhere. By adapting content to different platforms, traditional culture can be spread through a wider range of channels, breaking the limitations of region and time and space, allowing more people to access this precious cultural heritage.

In general, the application of virtual reality and augmented reality technology, interactive and participatory expression design, and multimedia and cross-platform expression strategies provide new possibilities for the innovative expression of traditional culture. These innovative methods not only enhance the dissemination effect of traditional culture, but also enable learners to gain a deep cultural understanding in rich sensory experiences, further enhancing the sense of participation and interactivity of cultural education.

4. Multidimensional Interpretation of Traditional Culture

The multidimensional interpretation of traditional culture is not only a simple reproduction of its history, society, art and emotions, but also a comprehensive understanding and re-creation of its deep connotations. In the digital media education platform, traditional culture can not only help learners fully understand all aspects of culture through multi-dimensional presentation, but also enable culture to continue to spread and develop through innovative ways.

First, the historical dimension of culture is an important basis for the interpretation of traditional culture. Each traditional culture has a rich historical background and evolution process, which reflects the historical evolution, social change and cultural accumulation of a nation or region. When presenting the historical connotation of traditional culture, the digital platform makes the evolution process of traditional culture more intuitive and easy to understand through timelines, digital archives and interactive historical education modules. The digital platform uses multimedia means to display the formation process of historical events, figures and traditional culture, and uses virtual reconstruction technology to restore historical scenes, providing learners with an immersive learning experience, thereby helping them to relive the long river of history in a digital environment and deeply understand the impact of historical background on cultural evolution [11].

In terms of the social dimension of culture, the impact of social background on traditional culture cannot be ignored. Traditional culture is not only shaped by historical factors, but also closely related to social changes and the progress of the times. The social background constantly affects the form, content and social function of traditional culture, and this interactive relationship also provides us with a multi-angle cultural interpretation method. On the digital media platform, traditional culture can cross the barriers of history and show its connection with contemporary society through its close connection with modern society. Through the digital platform, users can understand how traditional festivals, etiquette, customs, etc. are integrated with modern life, and how they are constantly given new meanings and practices in modern society. This integration of online and offline helps traditional culture maintain its vitality in the new social context and promotes cultural inheritance and innovation.

From the perspective of art, traditional art has a variety of forms of expression. Whether it is ancient calligraphy, painting, music, or folk drama, dance, etc., they all occupy an important position in traditional culture. Digital platforms provide a new display space for traditional art. Through virtual exhibitions, high-definition art works, interactive teaching and other methods, traditional art can be reproduced and interpreted on digital platforms. Through technical means, the expression of traditional art has been enriched and innovated. In particular, through video and animation technology, ancient art works can be dynamically presented, so as to better attract the attention and participation of the younger generation. Digital technology also enables traditional art to transcend the limitations of physical space. Audiences around the world can appreciate and learn these art forms through online platforms. This artistic reconstruction not only makes traditional art more vivid, but also enables it to form a dialogue with modern art forms, further enhancing its cultural value.

Finally, the emotional dimension of culture is the most friendly part of the interpretation of traditional culture. Emotions in traditional culture carry cultural identity, emotional resonance and

social ties passed down from generation to generation. Digital media platforms have unique advantages in conveying traditional cultural emotions. Through short videos, audio playback, digital storytelling and other means, the emotions in traditional culture can be conveyed to modern audiences in a more vivid and intuitive way. The reproduction of classic poems, folk songs and ancient stories through digital platforms can touch the emotional resonance of the audience and make them emotionally connected with traditional culture. This way of conveying emotions through modern communication technology makes traditional culture no longer a distant and abstract knowledge, but a cultural force that can trigger emotional resonance and transcend time and space.

In summary, digital media education platforms play a vital role in the multi-dimensional interpretation of traditional culture. Through innovative expressions in multiple dimensions such as history, society, art and emotion, traditional culture can be reborn in modern society, which not only helps learners understand traditional culture more comprehensively, but also gives it new vitality and meaning through digital technology.

5. Challenges and Countermeasures of Traditional Culture in Digital Media Platforms

Digital media platforms provide a new channel for the dissemination and innovative expression of traditional culture, but they also bring some challenges. While digital technology provides innovative display for traditional culture, it also raises the question of the contradiction between "authenticity" and "virtuality". The digitization process of traditional culture, especially through the application of technologies such as VR and AR, may lead to the deformation or simplification of cultural connotations. Some traditional historical scenes or cultural arts may be over-restored or commercialized, losing their original spirit and essence. Although the virtualized display method can make learners feel immersed, the conflict between this "virtuality" and the "authenticity" of traditional culture challenges the deep inheritance of culture and the accuracy of connotation. By providing convenient and instant cultural experience, digital platforms may ignore the in-depth interpretation of the historical background, cultural values and philosophical thoughts of traditional culture, resulting in learners' understanding of culture remaining at the surface level.

At the same time, the rapid development of digital technology has also brought challenges to the deep inheritance of traditional culture. Traditional culture often needs a long period of time to settle and pass on from generation to generation, but the fast pace of digital communication and information fragmentation may lead to the lack of depth and breadth in the process of cultural inheritance. The spiritual core, historical context and philosophical concepts of traditional culture are often difficult to be fully reflected in the short-term display of digital platforms, which puts great pressure on the deep inheritance and connotation protection of culture. Therefore, when digital platforms spread traditional culture, how to ensure the accuracy and depth of its inheritance and avoid superficial culture has become an urgent problem to be solved.

The copyright protection of traditional culture is another challenge faced by digital media platforms. On digital platforms, traditional cultural resources are widely disseminated and used, but this also brings about the issue of copyright ownership and protection. As a collectively created cultural heritage, traditional culture does not have a clear individual copyright ownership, which makes it often face the dilemma of "plagiarism" and "infringement" when it is spread on digital platforms. It is difficult to define the copyright ownership of many traditional cultural elements, such as folk art and folk stories, when they are spread on the Internet, especially on digital platforms, where the copying and dissemination of cultural content becomes extremely easy. The openness and anonymity of digital platforms also bring copyright protection difficulties to cultural creators. Therefore, the dissemination of traditional culture in the digital age not only needs to promote cultural creation, but also must formulate a more clear and reasonable system in copyright protection to ensure that the interests of creators are not infringed and avoid the disorderly abuse of cultural resources.

The copyright protection and sharing mechanism of cultural creation is also a key issue in the operation of digital platforms. How to balance the interests of creators and the sharing of public cultural resources has become a difficult problem in digital platforms. The creation and digital expression of traditional culture often rely on multi-party collaboration and cooperative innovation. Therefore, establishing a reasonable sharing mechanism that can not only ensure the protection of the intellectual property rights of creators but also promote the widespread dissemination of cultural resources is the focus of platform operation. The platform should provide cultural creators with clear copyright declarations and protection mechanisms through a sound copyright management system, and encourage cultural creators to cooperate and share within an appropriate framework. This can not only protect the creative achievements of creators, but also promote the diversified display and innovative development of traditional culture on digital platforms.

The quality and screening mechanism of platform content is also one of the important challenges faced by digital media platforms. With the continuous increase of traditional cultural content on the platform, how to ensure the quality and dissemination value of its content has become a major problem. When traditional cultural content is disseminated on digital platforms, it involves content review and screening, especially when cultural information is distorted or misunderstood, it will have a negative impact on the accuracy and effectiveness of cultural dissemination. The platform needs to establish a complete review mechanism to conduct necessary screening and evaluation of uploaded cultural content to ensure that it meets the value standards of cultural communication. At the same time, in the process of content screening, it is necessary to avoid oversimplification or misinterpretation of traditional culture, and ensure that the dissemination of culture is not only a formal display, but also an in-depth and educational content dissemination.

In terms of ensuring the accuracy and dissemination value of cultural content, the responsibility of the platform cannot be ignored. The platform should conduct rigorous academic review and evaluation of traditional cultural content through a professional cultural team to ensure the authority and accuracy of the content. It should also pay attention to user feedback, adjust and optimize content in a timely manner, and prevent misleading dissemination of cultural content. On the one hand, this can enhance the cultural influence of the platform, and on the other hand, it can enhance learners' recognition and understanding of traditional culture and ensure the correct inheritance and expression of traditional culture in digital platforms.

In summary, the dissemination of traditional culture in digital media platforms faces the contradiction between "authenticity" and "virtuality", the challenge of copyright protection, and the difficulty of content quality screening. To solve these problems, it requires not only the innovation of the platform in technology and management, but also policy support and the joint efforts of cultural creators to ensure that traditional culture can be inherited and developed in a healthy and orderly manner in the digital age.

6. Conclusion

With the rapid development of digital technology, digital media education platform has become an important carrier for the dissemination of traditional culture. On this platform, innovative ways of expressing traditional culture emerge in an endless stream, and the introduction of digital technology has made the education of traditional culture richer and more diverse. From VR to AR, from multimedia interaction to cross-platform communication, digital media has not only broken through the limitations of time and space, but also created an immersive learning experience through the integration of multiple senses. Through these innovative means, traditional culture can be displayed more vividly and vividly, allowing learners to intuitively feel the unique charm of culture. Historical sites in virtual scenes, interactive traditional art experiences, and ancient stories told through digital platforms all provide learners with opportunities to deeply contact traditional culture. This innovative expression method not only enhances the dissemination effect of traditional culture, but also broadens

the audience group of traditional cultural education, especially the younger generation is more likely to contact and understand the connotation of traditional culture through digital means.

The effect and significance of multi-dimensional interpretation of traditional culture are also effectively reflected in this process. Through a comprehensive interpretation of the four dimensions of history, society, art and emotion, traditional culture is presented from multiple perspectives, enabling learners of culture to gain a more comprehensive and profound understanding. Digital media platforms make traditional culture no longer just a closed historical heritage, but dynamic, interactive and full of vitality. Through the interactive design on the platform, learners can not only understand the historical background of traditional culture, but also feel its connection with modern society and experience the rebirth of traditional culture at the artistic and emotional levels. This multi-dimensional interpretation method not only deepens the cognition of cultural connotations, but also helps learners establish cross-cultural identity and emotional connections, so that traditional culture can be more widely understood and recognized in modern society.

However, although digital media education platforms provide rich possibilities for innovative expression and multi-dimensional interpretation of traditional culture, there are still many challenges for further development in the future. In order to promote the wider digital dissemination of traditional culture, it is necessary to increase investment in digital resources of traditional culture, not only to strengthen the digital transformation of traditional cultural content, but also to pay attention to the technological innovation of digital platforms and improve the user experience of the platform. In the future, digital traditional cultural resources should be disseminated to the world through more open platforms and social media, so that more people can cross geographical and language barriers to understand and experience the diversity and depth of traditional culture. At the same time, promoting cross-cultural cooperation and exchanges can also further enhance the influence of traditional culture on a global scale.

On the other hand, it is also crucial to enhance the innovation ability and diversified interpretation of digital media education platforms. With the advancement of science and technology, new educational technologies and means continue to emerge, and digital platforms must continue to innovate and explore new educational models and forms of expression. This requires not only the continuous updating of the platform at the technical level, but also the attention to the quality and depth of educational content, to ensure that the dissemination of traditional culture is not only a quantitative expansion, but also a qualitative improvement. In the future, the platform should also focus on the application of new technologies such as artificial intelligence and big data, and provide more interactive, participatory and personalized cultural and educational experiences through personalized recommendations and intelligent learning paths. The platform should also strengthen cooperation with cultural academic circles, creators, governments and educational institutions to build a more complete digital ecosystem of traditional culture, and provide more solid support for the protection, inheritance and innovation of traditional culture.

In short, the rapid development of digital media education platforms has brought unprecedented opportunities for innovative expression and multi-dimensional interpretation of traditional culture. Through continuous innovation and improvement, digital media can better promote the digital dissemination and in-depth understanding of traditional culture, and open up new space for the inheritance and development of traditional culture. In the future, we need to further promote the digital transformation of traditional culture, enhance the innovation ability of the platform, ensure that traditional culture can be widely disseminated and continuously innovated in the digital age, and contribute to the diversity of world culture and the common development of human civilization.

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