

Research on the Integration of Digital Inheritance and Creative Development in Liaoning Heritage Park

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Abstract: In-depth analysis of the development history of each Liaoning site, study the relevant historical materials of the site, so as to respect history and take history as a mirror. This paper summarizes the development and changes of Liaoning ruins, and summarizes the characteristics and value of Liaoning ruins during their construction period. Taking the historical development and present remains of Liaoning heritage parks as the starting point, this paper deeply studies the characteristics of urban construction, studies and summarizes the historical and modern values of the sites, and presents them through the landscape design and digital means of the site parks as the premise of protection and design. This paper puts forward the digital design method of Liaoning Heritage Park, based on which the landscape planning and design of Liaoning Heritage Park are carried out. Through the layout of functional zones, specific special planning is improved, including site nodes - displaying the connotation of historical and cultural themes, road traffic - restoring the spatial pattern of the site, service facilities - improving the tour experience, green space system - protecting the ecology of the heritage park, and landscape sketches - highlighting distinctive theme details, and completing the landscape planning and design of Liaoning Heritage Park. Through the digital design method and specific design presentation of each Liaoning Heritage Park, the connection between the public and the sites is strengthened, the protection awareness of the sites is publicized, and the spiritual needs of the public for history and culture are met. The protection mode of heritage park not only protects the continuation of the development of historical context, but also enhances the needs of urban cultural connotation and the spiritual and emotional needs of the public.

1. Introduction

Through the in-depth analysis of the theoretical data of digital heritage at home and abroad and the investigation and analysis of restoration project cases, relying on the current status of the park environment in Liaoning Province, the digital cultural inheritance and creative development and construction of the theoretical research and project practice research. We should combine modern and advanced technological means to carry out creative transformation and innovative development, give it a new connotation of The Times and modern forms of expression, and activate its vitality."^[1] Using the characteristics of digital media art, such as efficient, intuitive, interactive and wide communication, it can protect and inherit the intangible cultural heritage with profound connotation in the form of three-dimensional animation, virtual reality, holographic projection and so on, which can break through the limitations of time and space and realize the integration of intangible cultural heritage and modern art.

2. Research meaning

The report to the 19th National Congress of the Communist Party of China pointed out: " Culture is the soul of a country and a nation. Culture prospers the country, culture is strong. "" To inherit and carry forward the excellent traditional culture, we should combine modern advanced technological means to carry out creative transformation and innovative development, give it new connotation of The Times and modern form of expression, and activate its vitality ". Using the characteristics of digital media art, such as efficient, intuitive, interactive and wide communication,

the site can protect and inherit the landscape with profound connotation in the form of three-dimensional animation, virtual reality, holographic projection and so on, which can break through the limitations of time and space and realize the integration of site culture and modern art.

2.1 Research significance of historical value

The site is the product of witnessing the prosperity and development of social civilization, which may represent many kinds of historical values such as national civilization, clan society, culture and art, and the protection of the site is an important way to develop along the history. Site with uniqueness, fixation and unreproduction is the common property of all human society. With the rapid development of the economy and society, the public's pursuit of spiritual and cultural level is increasing day by day, and the protection and utilization of cultural heritage has become a cutting-edge development trend. The value of the site is deeply excavated to present its own brilliance. However, there is still a contradiction between the development of urban society and the protection of sites, and the harmonious development between the two should be coordinated.^[2]The historical documents of Liaoning sites will have the role of supplementing and promoting, and the enrichment of historical data will undoubtedly play a positive role in the shaping of urban culture. With the rapid development of urban society, the general public's demand for culture is increasing, which has also become the main contradiction between the social city development and humanistic desire. For example, the construction of Tokyo city Heritage Park to create the cultural image of the characteristic city. In this way, the practical problems of the current people's cultural and spiritual needs are also solved.

2.2 Heritage park design demonstration significance

"Protection first, rescue first, rational utilization, inheritance and development" is the national working policy for the protection of cultural heritage. Seek a new way out in urban development and urban culture construction to promote urban innovative development. Do a good job in the protection, management and rational utilization of material cultural heritage. For example, the construction of Tokyo City Heritage Park takes the principle of site protection and pays attention to the sustainable development of the continuation of site value. Protect the historical context information, in the design after gold (qing) period of social form and cultural content, the material cultural heritage and intangible cultural heritage properties and value, based on the site ontology development of benign protection mode, deepen the dual cognition of ontology and culture.^[3]

3. Creative ways to digitally inherit the culture of Liaoning Heritage Parks

3.1 Heritage heritage with digital art

In the inheritance and protection of cultural sites, the use of digital media art can transform important information materials of cultural sites into sound, graphics, images, text and other data information, which provides convenience for the display, recording, storage and inheritance of cultural sites. Displaying the information of cultural sites from multiple angles and in all directions and constructing big data of cultural sites can expand their communication space and change the current dilemma of preservation and presentation. It can make more audiences understand the connotation and essence of Luoyang cultural sites, and enhance the public's sense of identity and belonging to cultural sites.

3.2 Use digital art to enhance the value of heritage parks and carry out creative industries

Liaoning Heritage Park has unique regional cultural characteristics, and the integration of digital media art can reconstruct the image of "science and technology art". The visual effect of scene reproduction and vivid image can not only enrich the expression form of visual design, but also help to better inherit and develop intangible cultural heritage. The interactive features of digital media art include multimedia interaction, immersive experience, game interaction, etc. The application of these digital technologies can enhance the convenience, experience, entertainment and other

functions of heritage cultural inheritance. For example, the Central Academy of Fine Arts released an App based on tenon and tenon content, combined with the performance method of games, and presented the tenon and tenon furniture skills from an entertainment perspective, which is a typical case of the application of digital media art to heritage cultural heritage. By using the interactive communication of digital media, multimedia terminal equipment and network platform, intangible cultural heritage can be integrated into people's lives in a more creative form and young expression, opening up a new way for non-genetic inheritance.

3.3 Use digital art to expand cultural dissemination of heritage sites

In this era of the vigorous rise of Internet video social networking, applying Liaoning site culture to digital creation can better expand the way of communication of Liaoning site culture. In April 2019, the short video platform of Douyin launched the "Douyin Intangible Cultural Heritage Partner Plan", and Kuaishou also released the "Kuaishou Intangible cultural Heritage Leader Plan" in the same year to support the development of intangible cultural heritage. ^[4]According to statistics, as of mid-April 2020, the number of short videos played under the topic of "intangible cultural heritage partner" on Tiktok reached 1.66 billion. An all-round contribution to the dissemination of site culture can make site culture live in the present more three-dimensional, and cultivate the curiosity of the young generation for site culture.

4. Technology enables non-genetic transmission routes

The networking, digitalization and interactivity of digital media art provide conceptual support and technical guarantee for the heritage of heritage culture, and is also one of the most dynamic emerging artistic expression forms in the heritage of heritage culture. Its digital processing means and display methods are more convenient for the inheritance of intangible cultural heritage. Heritage culture in digital media art not only shows the tradition, but also has the distinctive characteristics of The Times, which is a more scientific and efficient way to protect heritage culture. In the information age, the proportion of technological factors in cultural consumption and knowledge production is getting heavier and heavier, but cultural value should not be diluted. Technology and value, tools and rationality have obtained the opportunity to integrate and improve. ^[5]Digital technology integrates modern aesthetics to present traditional culture in a new way, and the value of traditional culture is also integrated and symbiosis in different forms of cultural products. Heritage cultural resources will not necessarily or automatically be transformed into products, only through creativity, through industrialization, in order to achieve "creative transformation, innovative development".

4.1 To expand the breadth of Liaoning heritage culture in the form of visual images

The construction of visual image (short video, MG animation, dynamic graphics, etc.) design in Liaoning Heritage Park, fragmented audio-visual content with appropriate animation effects, can make the cultural highlights of Liaoning heritage more prominent and more wonderful, and the key content that can most attract people's attention, arouse people's emotional resonance, and bring people the enjoyment of beauty will be well presented. ^[6]Better expand the breadth of Liaoning heritage cultural display.

4.2 In the form of interaction, to enhance the cultural interaction of Liaoning ruins

In the main exhibition area of Liaoning Heritage Park, multi-sensory interactive technologies such as motion capture, AR interactive game and VR panoramic display can be used to display the cultural characteristics and skills of the site through capture and interactive design of touch screen, so as to realize the communication and interaction between people and "works", and allow the audience to experience the charm of intangible cultural heritage. Through multiple connections and scene sharing, it creates an immersive feeling for the audience, so that the site can be "heard", "taken away" and "learned", and then become a lifestyle accessible to people. Enhance the

interactive experience of the public and help discover the cultural and market value of Liaoning ruins.

4.3 Cross-border integration to build the cultural IP of Liaoning Heritage Park

Cultural IP is a highly recognizable cultural symbol. For example, the Palace IP combines the extensive and profound heritage image of traditional culture with modern new consumption, new aesthetic taste and new life interest, and cooperates with Tencent to develop a classic IP image, explore the application paradigm of advanced digital technology in the field of cultural heritage protection, research and display, and re-examine traditional culture with high-tech. Liaoning has a profound cultural heritage and a lot of cultural IP worth developing. Therefore, excavating the cultural IP of Liaoning Heritage Park and using modern expressions to open up the boundaries of diversified IP development can make the cultural heritage glow with continuous vitality, truly promote the high-quality development of culture, and meet the needs of the people for high-quality culture.

5. Conclusion

Fully carry forward the cultural resources of relics in Liaoning Province, and use digital technology to develop cultural derivative products such as digital audio-visual, digital entertainment, digital interpretation and digital entertainment in the cultural aspects of heritage parks in Liaoning Province, strengthen the sense of interaction and participation, which is conducive to strengthening the public's cognition and understanding of cultural heritage, and make the culture of heritage parks in Liaoning Province extend time and space in a new way. Nowadays, the model of heritage park occupies the mainstream of site protection and creates various models of Liaoning Heritage Park, including site protection, leisure tour and ecological restoration. Combining the technical, artistic and interactive features of digital media art and its influence on traditional art design, this paper explores the relevance and mutual assistance value of digital media art design and traditional culture from the point of convergence of digital media art and cultural inheritance of Liaoning Heritage Park.

The digitization and opening of Liaoning cultural heritage resources, the integration of traditional cultural stories with modern values and public aesthetics, and the formation of community communication relying on the network. Seize the opportunity of the deep integration of "Internet + culture, science and technology + culture" to open up operational channels for the cultural industry and extend the industrial chain. The networking, digitization and interactivity of digital media art provide concept support and technical guarantee for the inheritance of cultural heritage sites. This project combines the characteristics of digital media art and integrates new technologies such as virtual reality, augmented reality, mixed reality and artificial intelligence to create virtual scenes, create widely shared products, and provide the public with immersive cultural participation experience. With the application of 5G technology in the field of cultural heritage protection and inheritance, the establishment of a cultural service network for heritage sites will be accelerated. Use AI technology and multi-sensory interaction technology to let the audience experience the charm of intangible cultural heritage. Fully integrate media resources and expand its influence with the help of new media. By creating topics and strengthening interaction on social platforms, we can help the public deepen their understanding of intangible cultural heritage. Carry out the cross-border integration of Liaoning Heritage Park + cultural tourism, Liaoning Heritage Park + poverty alleviation, and Liaoning Heritage Park + science and technology, and use digital technology to document and preserve the cultural resources of Liaoning heritage sites and innovate design, so as to realize scientific and efficient protection of the culture of Liaoning heritage sites.

The interactive function of digital media art is added to the conventional design to increase the artistic effect of the park and people's sense of experience, and the traditional art is combined with modern technology, so as to realize the art display under modern technology, and the creative industry is mostly used to provide reference for the design and development of Liaoning Heritage

Park. Through the virtuality of digital media technology, we try to realize the virtual reality display of Liaoning Heritage Park across time and space and across times.

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