

# Exploration of Innovative Fusion between Digital Art Elements and Traditional Cultural and Creative Design

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**Abstract:** Many designers often overlook the entertainment value of cultural and creative products during creation, resulting in products that do not meet the demands of contemporary audiences. This issue can be addressed by leveraging the search capabilities of digital technology to collect a wealth of creative materials. Designers can draw inspiration from this extensive pool of materials, integrate them with relevant cultural and creative industries, and inject their own creative ideas to produce culturally rich products that offer a new and enhanced experience. This approach enhances the competitiveness of cultural and creative products in the market. Additionally, in the rapidly developing information age, staying informed about the latest trends allows creators to capture recent hot topics using digital technology. By aligning with societal developments and understanding audience needs for cultural and creative products, creators can produce products that resonate with the changing times, ensuring the vitality of cultural and creative products.

**Keywords:** Digital art; Cultural and creative design; Fusion

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## 1. Introduction

Digital art refers to the application of digital technology and computer programs to analyze and edit photos, audio, and video files, ultimately creating new forms of artwork. Traditional cultural and creative design involves elements and traditions developed over thousands of years, including patterns, figures, legends, etc. These elements are commonly used in various aspects of daily life, such as traditional clothing design, calligraphy and painting, toys, and more. Traditional cultural and creative design can expand the reach of traditional culture, bringing long-standing traditions into people's lives, allowing more individuals to experience the charm of traditional culture. However, in recent years, due to a lack of innovation, traditional cultural and creative products struggle to attract the attention of the younger generation. To address this, digital art elements have entered the field of traditional cultural and creative design, injecting new perspectives and creating innovative forms to open up new pathways for cultural dissemination, ensuring the longevity of traditional cultural and creative design.

## 2. Challenges and Development Trends of Traditional Cultural and Creative Product Design

Cultural and creative products have become a popular industry, primarily incorporating elements of traditional culture into practical products, showcasing cultural connotations, and possessing certain collectible value. However, with the development of the industry, cultural and creative design faces several challenges:

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**(1) Blurred cultural value and unclear product positioning**

Originally, cultural and creative products primarily focused on cultural connotations, designing products that adequately reflected cultural values. However, with continuous industry development, cultural and creative industries have been endowed with higher commercial value. This has led many cultural and creative products to prioritize commercial interests over the cultural significance they represent. Some products are hastily designed and packaged, lacking an in-depth exploration of the profound meanings behind the culture. This compromises the ability of cultural and creative works to accurately convey traditional cultural values and diminishes the overall purchasing experience.

**(2) Lack of originality**

Influenced by fixed thinking patterns, most cultural and creative product designs are repetitive, with little innovation. As aesthetics evolve with time, design for cultural and creative products must not only emphasize cultural connotations and practicality but also align with contemporary aesthetic preferences. However, many cultural and creative products currently imitate or plagiarize existing works, resulting in a market saturated with homogeneous products, causing aesthetic fatigue among consumers. The market urgently needs original content to revitalize interest.

**(3) Disconnection between design and production**

Due to the increasing specialization in modern society, producers of cultural and creative products often lack a deep understanding of the designer's intent. This can result in a significant gap between the designer's vision and the final product. Such a gap not only diminishes the value of cultural and creative products but also increases production costs without achieving the desired design effect. The disconnect discourages designers and hinders cultural and creative products from realizing their anticipated commercial value.

**(4) Insufficient promotional efforts**

Many cultural and creative products still rely on traditional promotion methods, limiting the reach of the industry. As a result, the audience for cultural and creative products remains relatively small, and the market space for cultural and creative industries is limited. Failing to keep pace with the development of the times, cultural and creative products struggle to innovate in terms of communication, leaving them confined to local and niche markets. This insufficient promotion impedes the recognition of cultural and creative products among the general public.

**3. Application and Advantages of Digital Art in Traditional Cultural and Creative Design**

The integration of digital art into the design of cultural and creative products can bring a fresh and enhanced experience to consumers. By employing forms such as VR, games, animation, music, and more, designers can enrich the cultural products' content, presenting cultural elements in a more comprehensive and three-dimensional manner. This not only elevates the artistic value of the products but also provides consumers with a more immersive and interactive experience. The advantages of incorporating digital art into cultural and creative design include:

**(1) Improved visual effects and interactivity**

The inclusion of digital technology, such as VR, animation, and film, enhances the visual appeal and realism of cultural and creative products. This provides audiences with a visually impactful experience, making it easier for them to observe the details of cultural and creative products and form a profound impression. Additionally, features like touch screens, voice navigation, and other interactive functionalities allow audiences to choose content of interest, exploring the background, design techniques, and cultural connotations of cultural and creative products based on their preferences. This enhances the audience's understanding of the products' intended value and significance.

**(2) Increased market competitiveness**

In an environment where most cultural and creative products rely on traditional promotion methods, the incorporation of digital technology injects vitality into the dissemination and inheritance of cultural and creative

products. The addition of new technologies makes cultural and creative products more appealing, expanding their market space. The application of digital technology in cultural and creative products introduces a fresh design experience that attracts more audiences. The detailed showcase and exquisite animation demonstrations help people who do not understand cultural and creative design appreciate the value of such products, enhancing public engagement and interest. This, in turn, increases the added value of products and market competitiveness, driving the formation of a trend in digital cultural and creative consumption.

### **(3) Facilitating the development of cultural and creative ecosystems**

Digital technology can help transform more innovative ideas in cultural and creative product design into reality, bringing inspiration and perspectives to the design process. For example, the use of AI technology can transform shadows and explanations in the Su Embroidery Art Museum, provided with abundant high-quality resources by JD.com, and initiate the online museum project. This initiative allows the vast cultural heritage of Chinese traditional handicrafts to step into modern life. Through AI technology, changes in light and shadow and explanations allow people to experience the changes in traditional culture, from the ancient art of storytelling in Gusu District to traditional folklore to the changes in traditional crafts recorded as intangible cultural heritage.

## **4. Integrated Application of Digital Art Elements in Traditional Cultural and Creative Design**

### **(1) Adopting interactive experiences to meet market economic demands**

Digital media is a comprehensive development concept, and the integration of digital media art design with the cultural and creative industry leverages a powerful combination of technology and art<sup>[2]</sup>. Digital media art, rooted in network technology, represents a novel art form that manifests through various mediums such as animation and video, offering an immersive cultural and creative experience that transcends temporal and spatial limitations. The cultural and creative industry, encompassing broadcast arts and visual arts among other media industries, benefits from the application of digital media art design, facilitating industry transformation and providing opportunities and space for the exhibition of cultural and creative works. Constructing virtual temporal and spatial forms based on digital media art enables audience engagement through virtual reality glasses, allowing them to interact intimately with cultural and creative products, gaining firsthand insights into the stories behind them. Building virtual scenes for immersive experiences in cultural history, coupled with high-quality technological rendering, delivers visual impact, leaving a lasting impression on audiences. The integration of technology with reality shortens the distance between creators and a broader audience, employing interactive experiences to obtain more authentic feedback and meet the developmental needs of modern market economics. Through digital media art design, profound spiritual connotations are imbued in cultural and creative products, enhancing their intrinsic value.

### **(2) Emphasizing aesthetic experiences for audiences**

In the era of new media, aesthetic information is more diverse, challenging the monotony of past aesthetic experiences. Consequently, designers should consider current trends of diverse aesthetics, breaking traditional aesthetic boundaries when designing cultural and creative products<sup>[3]</sup>. Beyond the product design phase, enhancing the aesthetic experience of audiences in the product dissemination environment is crucial. Leveraging digital technology and diverse presentation forms, such as creating three-dimensional perceptual spaces, contributes to unique aesthetic experiences. Utilizing platforms like short video and social media for promotion involves more people in this aesthetic journey, elevating the visibility of cultural and creative products.

### **(3) Absorbing innovative ideas through digital technology**

The increasingly competitive market for cultural and creative products necessitates innovation to capture more market share. Designers must possess a sense of innovation to create distinctive products that stand out from

homogeneity, attracting more consumers. Digital technology contributes to innovation in cultural and creative design in three key areas:

### **1) Artistic creation**

Influenced by inherent thinking, many cultural and creative products find themselves trapped in conventional designs and a lack of innovation. Many designers overlook the playfulness of cultural and creative products during the creative process, resulting in products that do not meet the demands of contemporary audiences. Therefore, leveraging the search capabilities of digital technology to collect more creative materials becomes crucial. Designers can draw inspiration from a vast array of creative materials and, in collaboration with relevant cultural and creative industries, infuse their own creative ideas to produce culturally and creatively innovative products that offer a completely new experience. This approach enhances the competitiveness of cultural and creative products in the market<sup>[4]</sup>. Simultaneously, with the rapid development of the information age, numerous trending themes continuously emerge. Creators can utilize digital technology to capture recent hot topics, stay in sync with societal developments, understand audience demands for cultural and creative products, and create products that align with the changing times based on audience needs. This strategy helps maintain the vitality of cultural and creative products in a rapidly evolving market.

### **2) Artistic critique**

The experiential aspect of cultural and creative products is also a crucial dimension in the development of the cultural and creative industry. Utilizing digital technology, detailed explanations and analyses of cultural and creative products can be provided, covering aspects such as structure, style, and value. Through digital technology, audiences can quickly access the stories behind cultural and creative products, understand the cultural connotations embedded in the works, and grasp the original intentions of the designers. This not only adds more value to cultural and creative products but also enables audiences to integrate the cultural significance with the actual products, experiencing the value charm of the products<sup>[5]</sup>. Furthermore, incorporating literature content from relevant industries at home and abroad into digital art allows audiences to understand authoritative content, enhances the persuasive power of art displays, and increases the depth and breadth of audience understanding. This integration of literature content enriches the digital artistic experience, providing a more comprehensive and convincing understanding for the audience.

### **3) Cultural industry design**

In practical creative endeavors, authors can leverage digital technology to acquire more information about other elements related to the product. By incorporating these elements into product design, the overall fit of cultural and creative products can be enhanced comprehensively. Starting from the details allows a broader audience to experience the exquisite and clever design, and it also increases the audience's desire for exploration. For example, after designing the cultural and creative product itself, adaptive design for the packaging of the cultural and creative industry or the addition of related poster designs can be implemented. This integration and extension contribute to the fusion and expansion of entrepreneurship, elevating the artistic and innovative aspects of cultural and creative products<sup>[6]</sup>.

## **5. Building a Three-Dimensional Network Communication System**

For cultural and creative products to achieve broad market value, an expansive communication strategy is essential. Traditional network communication, being two-dimensional, has limited reach. In contrast, digital technology-driven communication is multidimensional, appealing to multiple senses and offering a more personalized and efficient approach. Therefore, a comprehensive deployment of digital technology is necessary to showcase the traditional cultural values embedded in cultural and creative products. From the perspective of audience needs, digital media technology should be employed to construct a digital communication network, establishing an interwoven matrix

of communication. Through widespread and multilayered communication strategies, cultural and creative products should be frequently brought to the attention of audiences, enhancing their overall impression. Effective use of video dissemination, breaking geographical and spatial constraints, and showcasing the charm of the cultural and creative industry through short videos can be achieved. Interactive forms, such as live broadcasts, facilitate understanding audience demands, increasing audience engagement and ensuring the global outreach of cultural and creative products.

## 6. Conclusion

Cultural and creative products embody a certain traditional cultural heritage. Successful design of cultural and creative products not only relates to the development of the cultural and creative industry but also involves the inheritance and dissemination of traditional culture. Therefore, there is a need to vigorously develop the cultural and creative industry. Currently, there are still many problems in the cultural and creative industry, such as the obscuring of cultural values and unclear product positioning. There is a lack of original design, with a prevalence of plagiarism and severe homogenization among products. There is also a disconnect between production and an inability to accurately convey design intentions. Inadequate promotional efforts result in cultural and creative products facing limitations imposed by regional spatial constraints, among other challenges. Under such circumstances, cultural and creative products need to quickly adapt to modern development. By leveraging the advantages of digital technology, virtual scenarios should be created to immerse audiences in an experiential journey through the weighty sense of cultural history. Through high-quality technological rendering of scenes, visual impact should be delivered to leave a profound impression on audiences, meeting the demands of the market economy. Adapting to changes in aesthetic preferences, breaking traditional aesthetic boundaries, and enhancing people's aesthetic experiences in the product dissemination environment should be prioritized. Emphasis on the application of digital technology, through various forms of expression such as creating three-dimensional perceptual spaces, can offer audiences unique aesthetic experiences. Efficient utilization of digital technology should be integrated into artistic creation, art criticism, and industrial design to explore the underlying value of cultural and creative products. Understanding more elements related to products and incorporating them into product design will result in the creation of culturally and creatively innovative products, enhancing their competitiveness in the market, and elevating their artistic and innovative qualities. Lastly, starting from people's needs, the guiding role of information dissemination should be emphasized. Through digital media technology, a digital communication network should be constructed, forming an intertwined matrix of communication. With a widespread and multilayered communication pattern, cultural and creative products should frequently appear in people's field of vision, understanding audience demands, increasing audience interactivity, and facilitating the global outreach of cultural and creative products.

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