The Development Status and Countermeasures of Digital Media Art

Shan Deng

School of Language and Culture, Graduate University of Mongolia, Ulaanbaatar, 11000, Mongolia

Abstract: This paper discusses the definition and characteristics of the art of digital media, introduces the application fields of digital media, and analyses the current situation faced by digital media art: the development of digital media art is facing the problem of rapid technological update and short life cycle; the knowledge and technology threshold of digital media art is high; the protection and inheritance of digital media art works have also attracted attention; the commercialization of digital media art is also an urgent problem. The commercialisation of art is also a problem that needs to be solved urgently. Finally, a series of countermeasures are proposed: the government and academic organisations should increase their support and investment in digital media art, and provide artists with a better creative environment and resources. Artists should strengthen their technical skills and interdisciplinary co-operation in order to adapt to new technologies and creative demands. Relevant departments should also strengthen copyright protection and market supervision to provide a good environment for the commercialisation of digital media art.

Keywords: Digital Media Art; Development Status; Countermeasures.

1. Introduction

Digital media art is a form of creation that combines art and technology, and it has made great development in the past decades. From the initial computer-generated images to today's virtual reality and augmented reality technology, digital media art is constantly breaking through the boundaries of traditional art and presenting us with brand new art experiences.

2. Definition and Characteristics of Digital Media Art

Digital media art refers to the art form created under the support of digital technology, which combines the elements of computer science, art design and media technology, and uses digital media as a carrier for artistic creation and expression. Digital media art has the following characteristics:

Firstly, digital media art is interactive. Compared with traditional art forms, digital media art can interact with the audience in real time, and the audience can participate in it, changing the form and content of the display of art works, from passively existing to actively participating.

Secondly, the expression form of digital media art is diversified. The continuous progress of digital media technology allows artists to use digital images, video, audio and other media to create rich and diverse works of art. Artists can express their thoughts and emotions through the diversity of digital media.

Again, digital media art has the characteristics of digitisation and virtualisation. Digital media art works no longer rely on traditional material forms, but are stored and disseminated in a digital way, and can be created and displayed in virtual space. The virtual nature of digital media art works allows artists to express their creativity and ideas more freely.

Finally, digital media art is interdisciplinary. The creation of digital media art requires the integration of knowledge and technology from a variety of disciplines, including computer science, art and design, media technology and so on. Artists need to have interdisciplinary ability to be able to integrate different elements together and create works with a sense of art and technology.

In conclusion, digital media art opens up a new art field through the innovation and application of digital technology. Characterised by interactivity, diversity, digitalisation and interdisciplinarity, it provides artists and audiences with a new way of creation and experience. With the continuous development and application of digital technology, digital media art will continue to promote artistic innovation and social change.

3. Application Fields of Digital Media Art

As an emerging art form, digital media art has been widely applied in various fields. The following are several major application fields of digital media art:

3.1. Network Art

With the widespread popularity of the Internet, network art has become an important part of digital media art. Network art creates a brand-new art form by utilising the characteristics of network technology and digital media. Through the network, artists can communicate and display their works with audiences globally, achieving the decentralisation and sharing of art.

3.2. Interactive Installation Art

Interactive installation art is an important direction in digital media art. By using interactive technology, artists can create installation works that can interact with the audience. The audience can interact with the works through touch, sound, movement and other ways, so as to participate in the creation of art, which realises the interaction and communication between the audience and the works.
3.3. Virtual Reality Art

Virtual reality art uses virtual reality technology to create an immersive art experience. By wearing a virtual reality helmet, the audience can feel the immersive art work and interact with the virtual world in the work. Virtual reality art has been widely used in games, films, exhibitions and other fields, bringing a new art experience to the audience.

3.4. Digital Image Art

Digital image art uses digital technology to create a new image experience. Through the application of digital media technology, artists can create art works with digital images as the carrier. Digital image art is not only applied in traditional media such as film and television, but also plays an important role in art exhibitions, public space and other fields.

3.5. Virtual Reality Art

Virtual reality art uses virtual reality technology to create an immersive art experience. By wearing a virtual reality helmet, viewers can feel an immersive artwork and interact with the virtual world in the work. Virtual reality art has been widely used in games, films, exhibitions and other fields, bringing audiences a new art experience.

The application fields of digital media art are rich and diverse, not only covering the traditional art field, but also broadening the possibilities of artistic expression. In the future, with the continuous development of science and technology, the application of digital media art in various fields will become more extensive and diversified.

4. The Current Situation of Digital Media Art and Countermeasures

Digital media art is a form of art that is constantly developing and evolving under the background of combining technology and art. With the continuous progress of science and technology and the rapid development of digital media technology, the status quo and challenges faced by digital media art are also increasingly apparent.

First of all, the popularity and application of digital media art has become more and more extensive, and it has penetrated into various fields, including advertising, film, games, art exhibitions and so on. However, the development of digital media art also faces the problems of rapid technological renewal and short life cycle. New digital media technologies keep emerging, and past art works will soon be replaced by new technologies, which brings great pressure to the creators of digital media art.

Secondly, the knowledge and technology threshold of digital media art is high. Digital media art involves knowledge and skills in many fields, such as computer science, image processing, animation production and so on. This puts higher requirements on the comprehensive ability and professionalism of digital media art practitioners, and also brings challenges to digital media art education.

In addition, the protection and inheritance of digital media art works have also attracted people's attention. The digital characteristics of digital media art works make them easy to copy and spread, which to a certain extent increases the difficulty of copyright protection of the works. On the other hand, the technical characteristics of digital media art works also determine that their inheritance and preservation methods are very different from those of traditional arts, and it is necessary to find suitable protection and inheritance methods for digital media art works.

In addition, the commercialisation of digital media art is also a challenge that needs to be solved. The value of digital media art works in the market and the commercialisation mode have yet to be further improved and explored. While traditional art is traded in the physical form of works, digital media art works need to rethink the business model to better balance the interests of artists and the market.

Overall, the status quo and challenges faced by digital media art in the process of development are multifaceted, including issues such as rapid technological updating, high threshold of knowledge, protection and inheritance of works, and commercialisation models. Solving these problems requires the joint efforts of artists, scientific and technological experts, educational institutions as well as the government to promote the sustainable development and innovation of digital media art through enhanced cooperation and exchange, and to provide better support and guarantee for the future development of digital media art.

In order to promote the further development of digital media art, we need to adopt some strategies. Firstly, the government and academic institutions should increase their support and investment in digital media art to provide artists with a better creative environment and resources. Secondly, artists should strengthen their technical skills and interdisciplinary co-operation in order to adapt to new technologies and creative demands. At the same time, relevant departments should also strengthen copyright protection and market supervision to provide a good environment for the commercialisation of digital media art.

5. Conclusion

Digital media is now widely used in the fields of network art, interactive installation art, virtual reality art, digital image art, and virtual reality art. The development of digital media art also faces the problems of rapid technological renewal and short life cycle. The knowledge and technology threshold of digital media art is high, and the problem of protection and inheritance of digital media art works has also attracted people's attention. The commercialisation of digital media art is also a challenge that needs to be solved. In the face of the problems and challenges, we should take the following measures: firstly, the government and academic institutions should increase their support and investment in digital media art, and provide artists with a better creative environment and resources. Secondly, artists should strengthen their technical skills and interdisciplinary co-operation in order to adapt to new technologies and creative demands. At the same time, relevant departments should also strengthen copyright protection and market supervision to provide a good environment for the commercialisation of digital media art.

References


