The Influence Factors of Computer Fusion Media Technology on Painting Art

Ling Jiang*
Shandong Women's University, Shandong, China, 250300

*Corresponding author e-mail: jiangling_china@126.com

Abstract. Contemporary art is the subversion of traditional art forms by artists influenced by the philosophical thoughts of Kant, Hegel, Schopenhauer and Nietzsche. And Freud's psychology. The vulnerability of contemporary art is reflected in the following aspects: with the continuous progress of modern science and technology, digital technology in the developed computer media era has promoted artists influenced by advanced technology and digital technology to create artistic works in the media era, which has changed the traditional creation mode and gradually adopted a more open attitude. Contemporary art is gradually transforming into other forms of "painting": graffiti, integrated material art, installation art, performance art, conceptual art, image art, computer multimedia art, etc.

Keywords: Contemporary Art, Vulnerability, Digital Technology in the Media Age, Computer Fusion Media

1. Introduction
When it comes to contemporary art, we have to think about a problem: the "contemporariness" of art itself in the era today[1-2]. Contemporary art is in line with the development process of the era today, because it covers various art without a unified style, a unified form and a comprehensive digital technology in the media age, as well as all kinds of mixed art styles[3-4], unusual changes, novel forms of expression and different structural styles. The comprehensive use of various texture materials, of course, also includes the use of advanced and high-end digital technology elements in the era of media in contemporary artworks. Especially in today's media era when digital technology is developed, digital technology is applied continuously in the art of painting, sculpture creation and various forms of mixed art in artworks, such as the "mixed art" of Lautenberg in the 20th century, of course[5-6], it also includes conceptual art, avant-garde art, installation art, experimental art and new media art. From this, we can see that the use of digital media not only changes the development mode, concept and direction of art, but also causes great visual impact on Contemporary Art and visual culture media.

2. Technology in the media era
In the process of understanding contemporary art, we should understand two key points: one is contemporary, the other is art. It requires us to understand the philosophy and essence of contemporary art. Under the impact of Kant, Hegel, Schopenhauer, Nietzsche and Freud psychology,
contemporary art subverts the expression of traditional art. In terms of the use of materials and the concept of creation, artists are not satisfied with the expression and pursuit of objective things. More artists pay more attention to their inner expression and emotional expression. The art formed in such an environment, including visual culture art, installation art, conceptual art and new media art, is a new form of contemporary art that meets the development of contemporary society and the needs of contemporary people’s psychological development. In the process of the continuous development of art media and the constant change of modern technology, especially the comprehensive use of digital technology in the media era enriches contemporary art. At the same time, it also makes contemporary art appear new ideas, new vision and new art creation methods with different art forms such as digital technology, new media application and performance form in the media age. Hence, in this new situation, “diversified” contemporary art has the following features: inclusiveness, multi-scale, multi-level, multi-dimensional performance media, so contemporary art is all inclusive. In this way, contemporary art will naturally produce vulnerability.

For the sake of simplicity, this paper sets up a collection of the art of painting

\[ S = \{(x_1, y_1), K, (x_n, y_n)\} \in \mathbb{R}^n \times \{+1, -1\} \]  

(1)

Where \( (x_1, y_1) \) indicates the optimization problem of regularized dynamic functions, which can be expressed as follows

\[ \min_{w \in \Omega} \Phi(w), \Phi(w) = r(w) + \frac{1}{n} \sum_{i=1}^{n} f_i(w) \]  

(2)

Where \( w \in \mathbb{R}^n \), \( r(w) \) represents a regularization term, a dynamic function \( f_i(w) \) by the art of painting \( x_i \).

Assuming that the dynamic function is dynamic and the objective function is strongly convex. Many researchers have studied the solution of the optimization problem (2), where the gradient descent method is the simplest first-order optimization method

\[ w_{t+1} = w_t - \eta_t g(w_t) \]  

(3)

Where \( g(w_t) \) indicates all the objective functions of the art of painting \( \Phi(w) \), \( w_t \) represents the total gradient at \( t \), \( \eta_t \) represents the learning step

3. Influence of technology on the art of painting in the media era

In the study of the vulnerability of contemporary art, we should first make clear what is the “monthly vulnerability” of contemporary art? In different application areas and perspectives of different disciplines, the definition of the concept of “vulnerability” is very different, and the connotation of this concept is also different when it is used by researchers in different research fields. In recent years, the concept and composition of “vulnerability” have been discussed in depth in the academic circles. Vulnerability includes: indicating the instability of groups or individuals; groups or individuals are more sensitive to external interference and change; under the change of external and external environment, groups or individuals are changing and difficult to recover. In the field of art, the vulnerability of contemporary art is reflected in the pace of the development of modern science and technology. The developed digital technology in the media era has promoted artists to be influenced by advanced technology and digital technology in the media era in the creation of artworks, and changed the traditional mode in the creation. Using more advanced methods to gradually adopt a more open attitude in the creation of works, artists are no longer satisfied with reproducing the objective things in reality while creating their own artworks, and take their own way of thinking, life experience, and the use of technology as a part of artistic performance. It pays more attention to the artists’ expression of the inner self-consciousness and self-feeling emotion, opposes the restriction of tradition
and the suppression of rationality in reality, and more shows the response to the living style, living state, suffering situation and psychological activity of contemporary people as the theme of his works. Artworks are integrated with various elements, concepts and modern science and technology. They are combined with digital technology in the media era. They combine different materials, different artistic expression styles, conceptual artistic thinking, individual artistic expression behavior, images, installations, sculptures, etc. and apply them to contemporary art. Contemporary art is more diversified in forms and ways of presentation, and there is no standard for judging art. Artworks are more sensitive and can access people's nerves. Artworks can not only be expressed by painting images, but also show different ways of space, suspension, voice, hearing, feeling, thought and behavior, spirit, etc., Contemporary art shows that there is no standard of judgment, no boundary, and cross-border mixed art. The vulnerability of the formation period is shown in Figure 1.

**Figure 1.** Artistic expression style technology in the applied media era

Painting is a traditional way and form of artistic expression. The emergence and development of painting always exists with human thought and spiritual life, which has become an important carrier for artists and painters to express their self-cognition, emotion and life environment. With the development of science and technology and the continuous progress of the times, especially the emergence of digital technology in the media age, its application in painting makes the range of painting images, the forms of image expression, the techniques of image expression, the effects of painting expression and so on meet a more extensive, diversified and diverse new test.

**Figure 2.** Painting art technology in the applied media era

Figure 2 shows that the “Contemporariness” of contemporary art itself should have the features of being ahead of the times, and creation should embody the features of the times, show the cutting-edge
nature of the times, and artists should boldly use challenging and mysterious ways to create works. Imagine that an artwork allows the viewer to understand at a glance, not to investigate its source, stimulate the soul of the viewer, or bring any spiritual feelings and ideological touch to the viewer, then it has no value. Where an artwork appears in a way unexpected, the viewers will feel curious. If they don't know why an artist wants to create such a work, it will make them think it's hard to understand, which will generate curiosity to understand. At least it challenges the sensory power of most people, and they cannot help but wondering: how to understand the development of contemporary art from the contemporary environment, re-examine their own art appreciation level and art cultivation, and make their art perception become sensitive.

4. Conclusions
The emergence of contemporary artworks is thrilling to the thoughts of people. We are in an era of extensive artistic expressions: Art is not only more sensitive and diverse in shape but also ingenious, always exploring more novel fields. In 1998, a work made of film transferred to digital video by Vanesas Beecroft, an Italian-born American contemporary performance artist, showed static and silent women in a variety of spaces performing live on stage, facing the public in such a form. The artist herself used the behavioral art in contemporary art to combine the digital technology in the modern media era and place the models in a static state on the stage, with almost no stage performance when the models kept the same posture for a long time. This contemporary artwork can be understood as follows: “In the past, all models of artists stayed in the studio. But now, they are directly out in the open.” This shows the fragility of contemporary art, a manifestation that artists become sensitive when they are influenced by changes in the outside world. The era today is an age of scientific and technological development. In the big picture of the continuous development of digital technology in the media era, artists combine contemporary art with digital technology with their sensitive perspectives, and continuously create more artworks with contemporary significance. They have facilitated the development of contemporary art to the forefront of the times while enriching contemporary art at the same time.

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