Research on Application of Computer Image Processing Technology in Oil Painting Creation

Huang wei1,*

1Xiamen Academy of Arts And Design.Fuzhou University, Putian, Fujian, 361000, China

*Corresponding author e-mail: weihuang@fzu.edu.cn

Abstract. Oil painting creation based on computer image tech can further enrich the creator's artistic creation process and enhance his oil painting creation space and inspiration. Based on this, this paper first analyses the relationship between computer image processing tech and oil painting creation, then studies the specific impact of computer image processing on oil painting creation, and finally gives the utilization of computer image processing tech in oil painting creation.

Keywords: Computer, Image Processing Tech, Oil Painting Creation

1. Introduction

With the iterative progress and maturity of computer tech, it has been widely and deeply studied and popularized in many fields, especially the progress of computer image processing tech, which has brought great convenience to the utilization of oil painting creation. On the other hand, the iterative development of social economy gives oil painting a broader development opportunity, and the progress of computer image tech makes the integration of oil painting and computer image processing tech more closely [1]. With the help of computer graphics processing tech, oil painting creators can further enrich their own artistic creation; enhance the creative space and creative inspiration. Computer graphics art is not a substitute and copy of oil painting creation, but a complementary, common progress and promotion with optimized creation.

The process of oil painting creation should not only reflect the theme of the work and the intention of the creator, but also reflect the times and directivity of the work [2]. Therefore, it needs the common progress and growth with the times to further reflect the cultural value of the work. In this process, oil painting creators are the users, disseminators and inheritors of culture and with the help of their works to show the values of the times. The utilization of computer image processing materials in oil painting creation helps to enrich the artistry and personality of oil painting, but it also needs the creators to pay...
attention to the new problems that are easy to occur in the utilization of computer image processing tech [3]. For example, in the computer image processing of art works of authenticity, information is too complicated, works of stiff sense and art painting details information processing and other aspects need to be further optimized, so as to make the oil painting creation can better show the work of conception and concept.

The optimized creation based on computer image processing makes works of art have more real image effect, and often have more vivid and interesting and personalized characteristics. The utilization of computer image processing tech in oil painting creation can effectively improve the characteristics of oil painting works in several aspects as shown in Figure 1 below, and make non-realistic oil painting have better utilization value [4-5]. Computer image processing tech provides oil painting creators with a more efficient and convenient creation platform, which makes the works more profound expression and resonance.

![Figure 1. Features of computer image processing tech in oil painting creation](image)

In a word, oil painting based on computer image processing tech can bring better visual effect, transmit more abundant painting information, and promote the work to better express its own value. Computer image processing provides a freer and more active means for oil painting creation, which greatly promotes the innovation and reform of oil painting creation concept and creation method [6-7]. As an important auxiliary means and tool of oil painting art creation, computer image processing tech is used in oil painting. At the same time, it needs to organically combine the artist's unique personality and deep emotion, so as to better promote the perfect integration of image processing tech and oil painting art. Therefore, it is of great practical value to study the utilization of computer image processing tech in oil painting creation.

2. The relationship between computer image processing tech and oil painting creation

2.1. Utilization of computer image processing tech

Computer image processing tech is mainly to use computer tech to complete the image design, editing and storage process, and realize the image information processing [8]. At present, the digital processing of computer image has been widely and deeply applied in many fields, and can effectively improve the quality of the image. With the help of computer to enhance the image, a series of operations such as image restoration, perfection and restoration can be realized. With the continuous
improvement of computer image processing tech, its image processing ability is also constantly improving, and gradually penetrated into the field of artistic creation represented by oil painting creation.

2.2. The combination of oil painting creation and computer image processing

Computer image tech brings a lot of inspiration to oil painting creation and aesthetics, which makes more oil painting creators join in the form of computer art creation, and through the organic integration with traditional oil painting creation, realize the computer communication between draft and picture. Secondly, the optimized communication and color rendering based on computer can realize the comprehensive utilization, editing and reset of image resources. In addition, through the photography material or other related materials directly into the computer tech rendering, make the creation of resources more abundant, so as to better serve the oil painting creation process.

2.3. The relationship between computer image processing tech and oil painting creation

The utilization of computer image processing tech in oil painting is helpful for the creator to obtain more diversified creative materials. First of all, the rich image elements in the computer Internet enable the creators to easily browse the various resources and materials needed for oil painting creation [9]. Secondly, computer image processing can bring inspiration to the creator. As an independent form of creation, the utilization of computer image processing software helps the creator to jump out of the discussion of traditional oil painting creation and achieve more rich inspiration. In addition, in the creative sketch level, the utilization of computer image processing tech can effectively simulate the traditional painting style, and organically combine different styles and effects, so as to greatly improve the creative efficiency of creative sketch.

2.4. Limitations of oil painting creation based on computer image processing tech

Although the utilization of computer image processing tech in oil painting creation has many advantages, it also has many limitations, which are embodied in the problems of painting sense loss, single painting language, limited creative initiative, etc. caused by excessive reliance on image processing. Among them, in the aspect of the lost sense of painting, it is mainly reflected in the creator's ability of sensory mobilization and the reduced sensitivity to oil painting. In the single level of painting language, mainly reflected in the lack of computer image language, its own language features, resulting in oil painting creation cannot further produce rich categories.

In addition, relying too much on computer image processing will make the subjective creativity of the creator limited, resulting in the line effect of pen and ink is too formatted; it is difficult to achieve the creative needs of pen and ink changes. Moreover, the fuzziness of oil painting artistic creation and the accuracy of the program are difficult to achieve unity. The oil painting works drawn on the computer will also bring some phenomena and shortcomings, such as stiff works, lack of aura and so on. The combination of computer image processing tech and oil painting creation is feasible, but it requires the integration of traditional painting concept and computer tech in the whole process of creation and design. Through the integration of the essence of traditional art, it could better enrich the oil painting creation of computer image processing, highlight the artist's unique personality and deep emotion, and realize the perfect integration of high tech and oil painting art.
3. The concrete influence of computer image processing on oil painting creation

3.1. The development trend of oil painting creation

First of all, the current optimization of creation gradually tends to image, mainly in oil paintings will show surreal scenes, to better express life [10]. In this context, the image of oil painting creation involves the transfer of rendering canvas, and oil painting creation is becoming more and more imaged. At present, there are great differences in the perspective and style of different optimization creators to observe the society, which makes the images and scenes of oil painting have their own unique connotation construction, so as to help the audience better understand and re-create the works. In the process of oil painting creation, we need to learn from and integrate the influence art to a certain extent, so as to improve the characteristics of oil painting art image in several aspects as shown in Figure 2, so as to better promote the creation effect of the work.

![Scientificity](image)

**Figure 2.** Typical characteristics of oil painting image.

3.2. Image commonplace and the disappearance of aesthetic taste

First of all, the images in oil paintings are gradually becoming more and more common. Contemporary oil paintings pay more attention to the living conditions of real groups and the problems and phenomena of human nature in real life. Secondly, the tendency of oil painting creation towards image normalization reflects the oil painting creator's reflection on philosophy and aesthetic spirit, and reflects the thinking given to the work by the creator. Oil paintings works by drawing on the fuzzy effect of photography, but also further convey the artist's strong personal feelings and thinking. In addition, the integration of the artistic language system and thinking mode constructed by oil painting artists into the image information makes the works contain too many information elements, so that the audience can only passively accept the visual guidance, and thus can only complete the image and image understanding in an intuitive way.

The image connotation and form of oil painting are strongly influenced by the visual cultural form, which causes the problem of image variation in oil painting creation. In this context, the resources of oil painting creation are gradually transiting to image resources, and the creators' aesthetic ideas have also changed. The subjective utilization of color in oil painting works is mainly carried out from the aspects of works, creators' ideas and emotions, as well as the needs of visual beauty, rather than simply describing and reproducing natural colors. The change of the aesthetic taste of oil painting, the change
of the aesthetic taste of the public and the change of the way of existence require the oil painting artists to keep pace with the development of the times, so as to make their works more full of true feelings.

4. Utilization of computer image processing tech in oil painting creation

4.1. Computer image processing software

The digital creation of oil painting is inseparable from the support of computer image processing software and hardware. The professional oil painting computer image processing tools include several aspects as shown in Figure 3, so as to better realize the digital processing effect of oil painting. At the level of computer image processing software, most of the software is used to process the digital image composed of pixels, so as to realize the editing, synthesis and other operations of oil painting image. Using the special effects of computer image processing software to realize the traditional art skills of oil painting, to realize the transformation from photos to oil painting freely for art design and digital painting, has realized the realistic effect.

![Figure 3. Computer image processing tool for oil painting.](image)

4.2. Utilization of computer image processing tech in oil painting creation

The utilization of computer image processing tech in oil painting can easily extract digital painting and scanning images such as vector drawing and 3D drawing, which makes the color of oil painting real and rich, and can show amazing artistic effect. Using computer image processing tech to create oil paintings to achieve different image processing effects, at the level of image material arrangement, by sharpening or softening the image material, the quality of the image can be restored and the artistic effect can be effectively processed. In the color mode level, the use of digital art color system, to achieve a variety of color mixing. Finally, at the rendering level, the computer image processing is used to make the image present a variety of different texture painting effects, so as to realize the delicate expression of the composition of oil painting elements and color scale.

5. Conclusion

In summary, computer image processing provides a freer and more active means for oil painting creation, which greatly promotes the innovation and reform of oil painting creation concept and creation method. The utilization of computer image processing tech in oil painting needs to organically combine the artist's unique personality and deep emotion, so as to better promote the perfect integration of image processing tech and oil painting art. Through the study of the relationship between computer image processing tech and oil painting creation, this paper analyzes the development trend of oil painting creation. Through the analysis of the influence of computer image processing on oil painting creation, this paper studies the relationship between computer image
processing tech and oil painting creation. Through the research on the utilization of computer image processing tech in oil painting creation, this paper analyzes the realization process of oil painting processing of computer processing tech.

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