The Influence of Biological Enlightenment on Visual Art

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Abstract: Visual expression is not an isolated basic practice method, nor is it purely a technical method, but is associated with creative discovery and becomes a channel for basic training to connect arts. The unique information processing mechanism of human visual cortex enables it to have fast, accurate and efficient target recognition. Vision is a kind of feeling form with strong initiative, and this kind of active exploration with high selectivity is the real meaning of visual perception. The so-called visual perception is visual thinking. People's perception of images is not such a simple physiological process. Human vision is not like a camera in mechanically copying objects. When the eyes find things, they will actively capture and scan their surfaces. The enlightenment of biology urges us to look at the education of visual art in a new way and grasp the understanding of visual art education at a deeper level. Therefore, the formation of an open education model can be said to be the necessity of social development.

1. Introduction

Human beings acquire external information through sensory organs such as sight, touch, hearing and smell, thus realizing interaction with the outside world [1]. Human vision is a positive exploration tool. This sensory function is not a cognitive tool that exists only for cognition. It is a biological organ that has evolved for survival. Visual art is an integral part of human society. Visual art has always described, defined and deepened human experience in human life [2]. The human eye continuously scans the environment and captures the target of interest for detailed observation. This behavior is caused by low spatial resolution in the peripheral region of the retina, high resolution of the plaque or central region [3]. People's perception of images is not such a simple physiological process, and people's vision is not mechanically copying foreign objects like a camera. When the eyes find things, they will actively capture and scan their surfaces. In the era of globalization, the development of information and technology makes the world communicate with each other in an unprecedented way, and the diversity of the world provides us with a brand-new vision to think about and perceive the world and to explore the role of its visual arts educators [4].

The human vision system has the capability of parallel computation and processing of analog information, and has a strong screening capability for processing external information [5]. This arrangement of human photoreceptors reduces the number of photoreceptors in the retina and reduces the size of the optic nerve and even the optic brain, but still allows high-resolution imaging. Everyone has an eternal need to pursue meaning, the connection between space and time, experience and events, body and soul, and wisdom and emotion [6]. The process of vision is when light illuminates the object, and the object emits a part of the light, which is then projected by the lens onto the retina, and then the information is transmitted to the brain to form an image [7]. Vision is a very active form of sensation. This kind of positive exploration has a high degree of selectivity, which is the true meaning of visual perception. The so-called visual perception is visual thinking [8]. The open situation prompts us to look at the education of visual art in a new way, grasping the understanding of visual art education at a deeper level, and thus forming an open educational model can be said to be the inevitable social development.

2. Morphological Perception and Psychology

2.1 Target Recognition in Biological Vision

The model of open visual art education does not have to be linear, uniform, and determinable.

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The educational model of organic change is the idea of interaction and development through interaction, reconstruction, transformation, and multiple interpretations. The symbolism of visual art symbols is often used by certain things to represent the specific meaning of a thing. In the long run, it becomes a representative of a specific potential consciousness of something. When people recognize the form, they often capture the most prominent features of it [9]. An agile cartoonist can vividly portray a person's image by simply selecting a few strokes. Bio-heuristic vision that can be used to redefine the data representation of an image. In the most primitive convolutional networks, the parameters of the entire network are obtained by training using a supervised error backpropagation algorithm. If you want students to maintain the dynamism of imagination and creation, they should help students to establish a spontaneous visual view, eliminate excessive interference or various visual pollution, and maintain self-confidence and visual acuity.

2.2 Target Recognition and Image Classification

Target recognition and image classification are basic problems in visual research, and also a very challenging problem. Shape is not only determined by the information captured by eyes at that time, it is always associated with memory traces of various shapes perceived in the past, which interfere with each other on the basis of mutual similarity. The motion sensation in retinal fovea jumps over the target speed range of four orders of magnitude and is mainly limited by the reduction time of photoelectric sensors [10]. As a visual art teaching worker, it should be clearly recognized that the current visual basic teaching should be an experimental course that studies modern visual art forms and analyzes various artistic languages. For morphological knowledge, the human eye tends to view any observed object as the simplest shape allowed by known conditions. In the practice of teaching, the Abstract form-forming exercises for students can promote the improvement of students' thinking, and at the same time promote the research of new expression methods.

This process of target recognition in the human brain is achieved through a series of cascaded reflexive, multi-quantity feedforward calculations. The application model performs risk assessment simulation on visual art control to obtain the risk of the project. As shown in Table 1. The comparison between the recommendation value and the evaluation value data is shown in Fig. 1.

Table 1 Recommended values and evaluation data for sample risk

Sample	1	2	3	4	5	6
Evaluation value	6.87	6.88	6.66	6.85	6.26	6.79
Recommended value	6.86	6.82	6.67	6.71	6.17	6.77

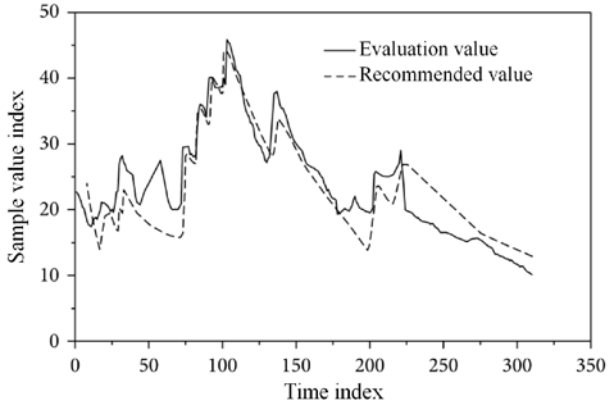

Fig. 1 Comparison of recommended values and evaluation values

3. The Influence of Biological Vision on Visual Art

The context of visual arts has also changed. Through the global movement, refugees and immigrants have changed the cultural integration of society. In many cases, the characteristics of

the identified object itself do not allow it to be well organized, and the viewer will show a strong psychological tendency to change it. When external objects are imaged in the retina, it is actually the photoreceptor cells of the retina that convert external light stimulation into electrical signals, which are transmitted to ganglion cells via bipolar cells in the retina to form nerve impulses. In the real world, students learn to explore and explain all kinds of thoughts and feelings and understand others. By developing and using prescribed values to evaluate the work of oneself and others, students can increase their confidence and know their own values and abilities. Creation and innovation cannot be carried out entirely by the general way of thinking. It mainly needs the support of creative thinking activities.

In the study of form, we should realize that subjective form feelings exist in students. People's subjective morphological characteristics are expressed through their own unique feelings of contrast, morphological characteristics, lines, textures and colors. The positioning range is mainly affected by the wide angle of the camera and the height of the camera from the platform. Due to the indoor height and camera parameters, only a limited number of agents can be expanded within a certain range. When the number of agents increases, a single camera cannot satisfy the coverage of the robot's motion space. Aiming at the medium access constraint of the wireless communication network, the intelligent body node scheduling protocol is designed by using binary sequence. And the scheduling protocol is used to schedule the agent node that meets the condition to access the network at the sampling time. Fig. 2 shows the structure of the agent node.

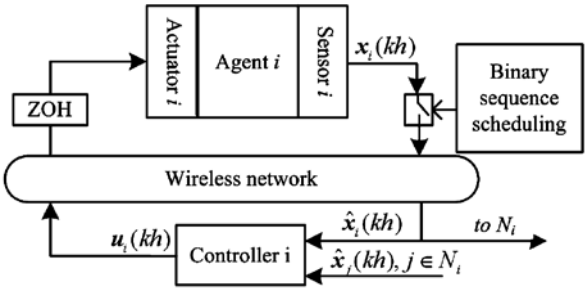

Fig. 2 Structure of the agent node

As the amplitude of the signal increases, the estimated signal can reach and exceed the true value, and it has a certain enhancement effect on the relatively large radial component, which can effectively preserve the edge and contour information of the image. The comparison of this function with other contraction functions is shown in Fig. 3.

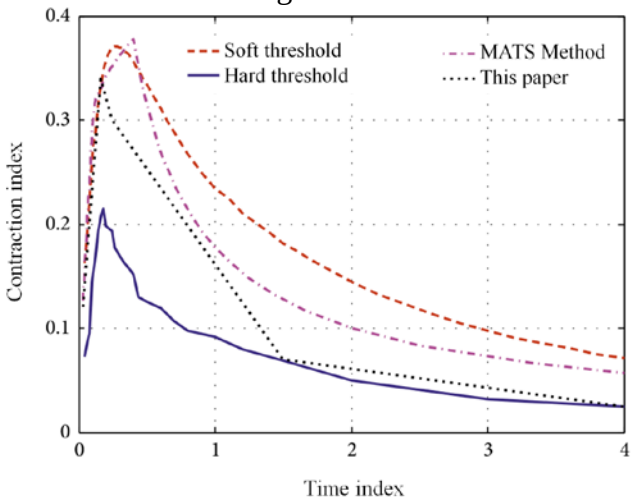

Fig. 3 Comparison with other contraction functions

However, the visual system usually only processes the information concerned. In general, observers do not need all external information for visualization, so the brain only needs to process and control some important information. Some great artists have turned to primitive art or children's painting for inspiration in order to pursue a higher artistic realm, break their existing thinking mode and formed personal style. The brain can consciously and continuously learn complex information

from the outside world, thus being able to adapt to environmental changes, recognize things and distinguish changes. Students with all kinds of talents have quite different reactions to the methods of expression when learning visual expression. They will naturally develop along different paths, thus tapping different potentials from students with different personalities. As a teacher, we must strengthen and liberate students' performance ability and fully express people's natural feelings. If the hand and brain reach the same emotion when forming a form, the form will show certain spiritual temperament and ideological connotation. In teaching, students' thoughts should be respected to help stimulate their creative potential, as well as their independent thinking ability, analytical thinking ability and artistic aesthetic ability.

4. Conclusion

Visual expression is not an isolated basic training method, nor is it purely a technical method, but is associated with creative discovery and becomes a channel for basic training connection design. Art education in schools is of vital importance. Aesthetic creative mind and profound wisdom are generated by students' opportunities to learn art. Art learning is also conducive to students' understanding of cultures with different viewpoints and values. With the emergence of various latest research results on the processing mechanism of human and primate visual cortex, we should not blindly require the research model to conform to the conclusion data and detailed description of physiological experiments, but should pay more attention to the analysis of biological mechanism and the overall grasp. The construction of image features directly affects the classification results of the classifier. With the emergence of various latest research results on human and primate visual cortex processing mechanism, we will have a clearer understanding of the human brain's visual information processing mechanism. The social habitual image of visual symbols can more directly induce the imagination of the object and comprehensively identify the potential, precisely because these symbols represent and symbolize its sphere of influence. Students will develop a larger visual world by looking at the world more deeply with a unique eye and paying attention to things that have not been noticed in the past.

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