Interactive Installation Art in Campus Public Space

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Abstract: In the background of the new crown pneumonia epidemic, the campus has become the main space for teachers and students. The spiritual and cultural life of campus should be added accordingly. The specific cultural atmosphere in campus culture guides teachers and students to develop in a healthy and orderly way. Temporary public works of art can be useful in the shaping of a good campus environment added luster. This paper introduces interactive installation art in the campus public space, which is avant-garde, novel and attractive, arousing the interest between teachers and students. Taking NingboTech University as an example, this paper explores the humanistic and aesthetic value of installation art in public space of colleges and universities through questionnaire, data research and design practice.

1. Introduction

Although most of the public spaces on campus have contained installation art, and most of them can be in harmony with the environment, there are also some works that aren't in harmony with the campus environment. Campus is the source of cultivating talents in society. It is closely related to the study and life of college students. At present, the essential feature of installation art is to communicate and interact with the public, to enable students to gain a pleasing effect by watching it, and to provide favorable elements for the campus. Students can receive aesthetic education and edification in the campus. Interactive installation art can better promote the cultural heritage of the campus. This article combines the social background of the current epidemic situation and uses the design language of installation art to express the challenge of the Chinese youth in the new era, courageously moving forward against the virus, and to demonstrate the mushroom -like vigorous force of youth.[1]

2. Basic Concept and Characteristics of Interactive Installation Art

2.1. Basic Concepts of Interactive Installation Art

Installation art is a three-dimensional visual art, which is often designed for a specific place, in order to change people's understanding of space. The expression "installation", which appeared in the 1970s, is generally used to design interior spaces such as galleries and museums. Outdoor work can also be seen as an "installation," but more artists display their creative presentations in a closed space for audience understanding. The "interaction" is based on the audience, allowing them to stay in the works of art, photography, play with the works of art in the process of interaction. In contrast to other static art, interactive art allows the viewer to participate in his or her own way, reacting to the work, or leaving his or her mark on the work. Contemporary artists often see the freedom to let go in this art form and allow the public to decide on their art form. It can be seen that the establishment of installation art needs three basic elements: site, material and emotion.[2]

2.2. Four Characteristics of Interactive Installation Art

The characteristics of interactive installation art can be described from the following four perspectives
(1) Timeliness
Often, installation art is used for short-term displays, not collections. In this process between the audience and the work, there will be random effect, each stage of the work and the surrounding environment constitute a different scene, emotional generation is also different from people. Therefore, the effect of the work can not be predicted in advance, with timeliness.
(2) Spatiality
Installation art requires the artist to choose the appropriate space through design, so that the viewer and the work can have a spatial relationship, and this kind of spatial similarity will directly affect the work that contains the local spirit.
(3) Comprehensive
The creation forms, materials and media of installation art are not limited by traditional art. Applying sound and light shadow to artworks can increase the value and meaning of artworks.
(4) Experience
The connotation of installation works and the feelings that the author wants to convey need the viewer to feel, communicate, appreciate and understand during the process of communication, and get the sympathy with people around.

3. Major Features of On-Campus Installation Art

(1) Novelty
Compared with the traditional campus sculpture and campus bulletin board, this kind of creative artistic expression and interaction show a strong contrast. Therefore, it will be placed on the campus, with the ability to further expand students' thinking, and stimulate their initiative and enthusiasm. This has a positive practical effect on the dissemination of campus culture [3]
(2) Comprehensive
The reason why the installation art has such a rich feature is that it is interwoven by a variety of disciplines, artistic forms and techniques of synthesis. The form and theme of its artistic creation also show extreme saturation. Installation art is characterized by interaction and change, where installation is both a medium and a form of expression.
(3) Emotional

The cultural aesthetic and creative process of installation art is to achieve people's spiritual needs by creating harmony and communication among people, people and works, people and space, and works and space. In a sense, the ultimate goal of the device is to create a more satisfying space for people's spiritual and emotional needs, and emotion is a key element of its message to the public. [4]

(4) Artistry

Installation art transcends the boundaries of different fields and disciplines, induces the use of various forms of design expression. It is also a simple art, so that people can get artistic inspiration in the interaction and exchange with this work, to achieve the exploration of art. As a place for students to live and study, campus public space should attach importance to aesthetic education of contemporary college students and spread positive artistic ideas.[5]

(5) Practicability

The art design of university campus should pay attention to the practicality, and consider the needs of the users, so that the installation can be both a symbol of the school landscape and a practical facility. At the same time, we should pay attention to safety and environmental protection to create a better campus environment.

4. Research and Analysis of Questionnaire Survey Results

This paper takes NingboTech University Design College as an example to explain the practical problems of NingboTech University and at the same time tries to explore the solutions to these problems by drawing on the opinions of the public.

4.1. Distribution and Recovery of Questionnaires

The questionnaire will start on June 4, 2022 and end on June 10, 2022. NingboTech University teachers and students for the study. In the questionnaire survey, there were 200 questionnaires, of which 160 were valid. The validity of the questionnaire reached 80%. The questionnaire is collected mainly through the network platform questionnaire star, as well as WeChat, QQ, microblog and other social networking sites. The convenience of the Internet makes the collection of information more extensive, data more reliable and representative. After screening, the effective questionnaires are analyzed and processed, and the relevant data distribution is obtained, which provides the basis for future analysis.

4.2. Analysis of Questionnaire Survey Data

(1) Greening landscape

Campus greening is the most important factor for teachers and students to feel the advantages and disadvantages of the campus environment. Good landscaping, is conducive to the exchange and interaction between teachers and students, active campus cultural atmosphere, create an active campus environment. Questionnaire survey data show that the satisfaction of teachers and students around the school environment reached 50%, our school in the limited space, the adoption of a "slitting" -style greening model. Although there is a large area of green land around the library, there are some deficiencies in the selection of tree species and the arrangement of variety groups. Around the issue of planting green varieties, teachers and students generally believe that more kinds of plants should be planted in spring and summer.

(2) Service facilities

Campus is an important place for teachers and students to live and study. Excellent basic service facilities are a prerequisite for ensuring that students and teachers can study and live comfortably. The basic service facilities of the school cover lighting, environmental sanitation, resting, directions,

artistic landscape, etc. Students and teachers generally agree that the order of the most to be improved is 34% for art pieces, 25% for trash bins, 18% for seats, 14% for directions, 6% for lighting, and 3% for others. (Figur 1)
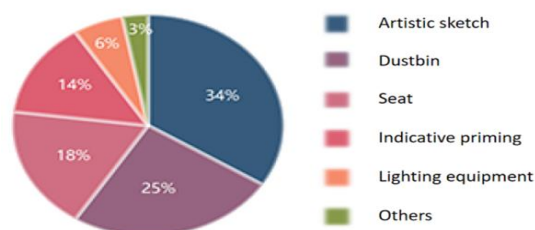

Figure 1. Public facilities that should be improved
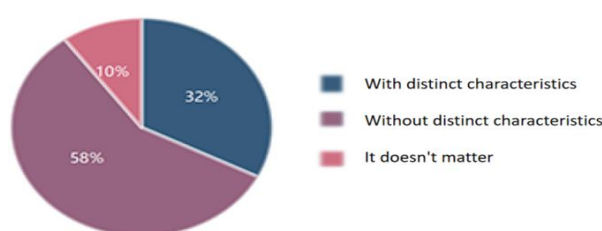

Figure 2. Does the campus environment have characteristics

(3) Campus characteristics

Every university has its own connotation of running a school and campus culture. Forming a distinct personality of campus culture can give students a strong sense of belonging to the campus environment, then feel proud of it. In recent years, due to the lack of connotation of running a school, the new campus has not paid enough attention to the expression of its personality and artistic node. College students do not have a deep sense of campus spirit, lack of sense of belonging, only 37.5% of the survey results think that the campus environment has its own characteristics. (Figur 2) [6]

4.3 Major Existing Issues Involved in the Questionnaire Survey

There are some areas of the campus space layout is not reasonable, the construction of campus environment lack of identity and innovation, besides, the landscape design is ambiguous, difficult to form their own characteristics. How to integrate the school motto and ethos into the campus environment, whether teachers and students have a strong sense of identity and belonging, and whether the campus environment and service facilities can provide effective opportunities for students to create and communicate with each other are all important contents that need to be reflected in the design of schools.[7]

5. Practice in the Design of Installation Works -- Taking NingboTech University as an Example

Through the investigation, it is found that the small number of art pieces on campus, the form is relatively backward, can not play a certain role in promoting aesthetic education. The design institute, due to the lack of the representative art display work, has the certain influence in the design institute's spiritual culture construction and the student esthetics education.

The design, After the rain, is located in NingboTech University campus, adhering to the

people-oriented, positive design ideas[8]. The theme of the work is in line with the campus cultural trend, which is full of artistic features and enriches the daily life of teachers and students. Below will carry on the elaboration to this work's design thought, the process and the design essential factor[9].

The installation works of art after the rain expressed by the design concept: in the footsteps of a hurry, if you meet as if it did not belong to this small piece of space, try to drop ideas, go close to it quietly feel. In the post-epidemic era, we will firmly believe that the epidemic will eventually pass. College students in the new era should have a mushroom-like spirit. The more violent the storm, the more vigorous the vitality[10]. Dozens of mushrooms with red umbrellas and white rods are used as the shapes of the device. The microporous materials are mainly selected and hand-made. The device works in the use of color configuration, the bold use of high-purity color creation. The combination of bright red and white produces a vivid visual effect, very eye-catching. His work was inspired by the Japanese artist Yayoi Kusama's[1] Podoo pumpkin (Figure 3) and French artist Paul Gramkin's[2] 1,600 paper pandas. (Figure 4)

Figure 3. Yayoi Kusama's Wave-Point Pumpkin

Figure 4. 1600 paper pandas

The main interactive elements of the work include a strong visual impact, interesting furnishings, and a small enclosed space of installations and environment to form an immersive installation art, which works place dozens of mushrooms in small spaces around the lawn, allowing the public to enter and interact with them. (Figure 5) This constitutes an immersive device that combines with its surroundings to create a special interactive art form. The combination of these interacting factors can close the distance between the public and art, and enable the public to observe, contact, think more deeply, communicating and interacting with art. This unique, interesting way of communication, not only people can be happy in the soul, but also people can experience the fun of art together.

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[1] Yayoi Kusama: Japanese female artist, known as the "avantgarde queen". Her works include feminism, minimalism, surrealism and abstract expressionism.
[2] Paul Gramkin: 1, 600 paper pandas made from environmentally friendly materials were first exhibited in Paris, France in 2008, touring more than a dozen world famous landmarks, sweeping the world.

The distribution of mushroom community had been adjusted three times during the demonstration stage. (Figure 6) Based on the analysis of the questionnaire, the sites with more people were selected. During the public display process, the work attracted many teachers and students to stop. There are three types of behavior: discussing and thinking about the authenticity and details of the work, getting in touch with it through the senses, taking pictures with friends and promoting it online. The main goal of this creation is to add interest to the campus environment, enhance students' life happiness, enliven the campus artistic atmosphere, and achieve harmony between man and nature. This work will be on public tour in the school. From a practical point of view, promote the integration of campus culture and popular culture and the development of installation art in campus public space.

Figure 5. Mushroom community

Figure 6. Mushroom community

6. Conclusion

Installation art into the feasibility study of college campus is an art language. First of all, the device is composed of materials of daily life, so do not require the manufacturer to have a high technical level. Students who have not received systematic learning can also boldly try artistic creation, which is beneficial to the popularization and promotion in comprehensive universities. Secondly, in the process of installation art creation, students' practical ability, aesthetic ability and patience can be trained, so as to achieve the goal of all-round development. Thirdly, installation art is an art that constantly brings forth new ideas, helping students better understand the social and cultural trends. Besides, it is an important way to guide young people to consciously and actively understand the world and broaden their horizons. Finally, the installation art on campus can correctly guide students to recognize excellent culture, enhance their ability of art appreciation, and to a large extent avoid students being confused by today's dregs culture.

Campus environment art can effectively cultivate teachers and students' sentiment, purify their mind, and inspire their inspiration, enlighten wisdom in human, promote their quality as well, and then effectively promote the healthy development of school work. [7] On college campuses,

commuting between teaching buildings, canteens and dormitories at three o'clock is a semi-fixed walking route for students, which is not conducive to stimulating students' enthusiasm for life and learning initiative. However, through some artistic activities and the creation of installation art, students can not only achieve the goal of physical and mental entertainment, promote learning, but also enhance the promotion of installation art, conveying the spirit of the school campus in an artistic way.

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Data Availability

Data sharing is not applicable to this article as no new data were created or analysed in this study.

Conflict of Interest

The author states that this article has no conflict of interest.

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