Research on the Application of Computer Information Virtual Simulation Technology to College Students' Social Practice Activities

Xuejiao Chen[1,a*], Zhiyuan Lu [2,b]

[1]*Gannan Medical University, Building 1, Longxin Huacheng, Ganzhou City, Jiangxi Province*
[2]*Gannan Medical University*
*[*a]Email: 2956803713@qq.com*
[b]Tell:13576799066

ABSTRACT

The arrival of the new era has promoted the rapid development of computer information technology. Information technology has been widely used in all walks of life. People's lifestyles have undergone many changes with the development and application of computer information virtual simulation technology. Its appearance also promotes social and economic progress. College students are the central point of using computer information technology, and major colleges and universities gradually pay attention to the social practice ability of college students, and also provide many platforms for college students' social practice. Therefore, it has become a new trend to widely apply computer information virtual simulation technology in the social practice activities of college students.

Key words: *computer information technology; social practice activities of college students; virtual simulation; application*

1. INTRODUCTION

In higher education, the social practice activities of college students are an important link to improve the quality of education, and it is also one of the important ways and key strategies to enhance the moral education of college students. The active participation of college students in social practice activities can strengthen their understanding of the current situation and prospects of social development, and at the same time, it can strengthen the university's ability to judge the current economic situation. Due to the many factors of social development, the current social practice activities of college students are restricted to a certain extent, and there are still many problems in the practice process. There are problems in the social practice activities of college students. Under the development of the new era, the active application of computer information technology can further improve the problems in the current practical teaching in colleges and universities, improve students' innovative ability, and strengthen the radiation and carrying capacity of education. At the same time, in the rapid development of economy and society, improving students' innovative ability and creativity through practical activities of college students is the focus of education. Therefore, the rational use of effective computing information technology in social practice activities of college students is an inevitable choice. In this regard, this paper mainly analyzes the relevant content of applying computer information virtual simulation technology to college students' social practice activities.

2. A BRIEF DESCRIPTION OF VIRTUAL SIMULATION TECHNOLOGY

This technology specifically refers to the rapid development of an information technology based on advanced Internet technology, virtual reality technology and multimedia technology, including the Internet and communication technology, which combines virtual reality technology and simulation technology, and applies both In industrial production, it is a brand-new simulation technology currently under development. This technology is a subject of new technology cross and comprehensive training. Therefore, the application of this technology in the social practice activities of college students can further promote the comprehensive development of college students, and it is a major

scientific research achievement that promotes the transformation and upgrading of human society[1].

The main characteristics of virtual simulation technology are networking, virtuality and integration, which can fully meet the development requirements of modern simulation technology. And applying it to practical education in colleges and universities, that is, using advanced technology to build a virtual simulation system for education and teaching through a computing system (see Figure 1), and checking the system conditions in real time in the application can ensure the consistency of the technology used in practical teaching. To improve the quality and efficiency of practical teaching. However, it is generally difficult for computers to accurately identify external information. Therefore, colleges and universities can formulate a set of relevant mathematical models according to the teaching situation to explore the essential characteristics of practical activities, so as to improve students' practical ability in a targeted manner. Through the reflection of the mathematical model, the essential characteristics of the research object can be well explored, so that the model can be continuously transformed by means of exploration, and the mathematical model can be directly transformed into other computer forms or other processing methods by means of computer algorithms, that is, Build a simulation model. This simulation model is the key and foundation to promote the development of modern computer simulationtechnology [2].
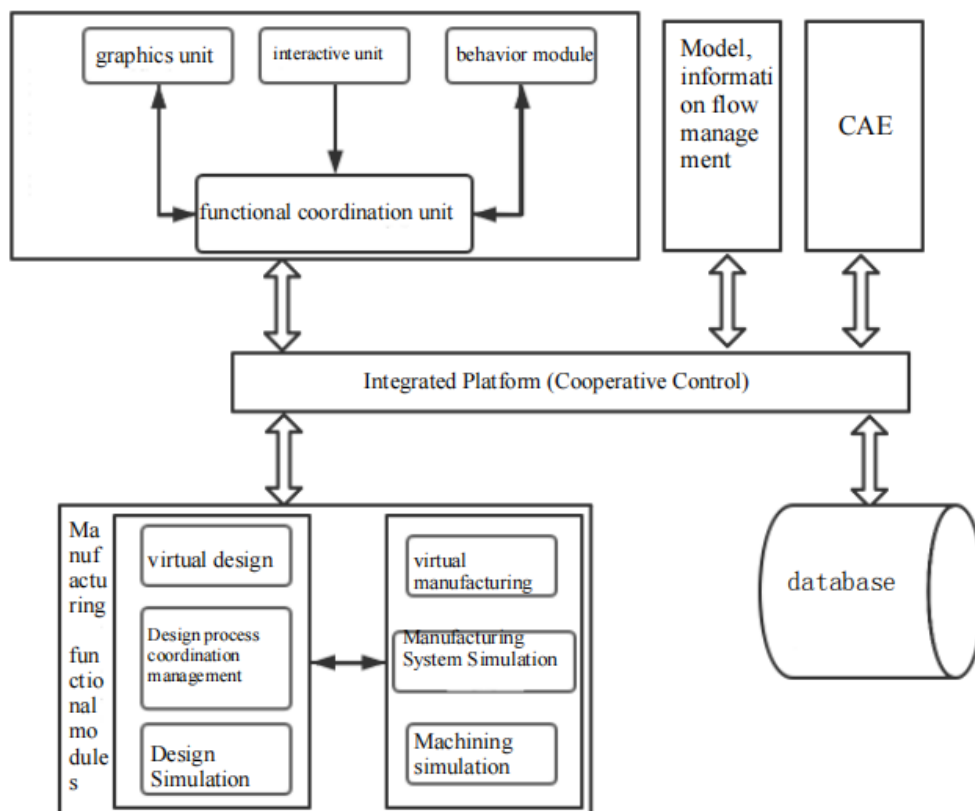

Figure 1 Virtual simulation system structure

3. BASIC CHARACTERISTICS OF VIRTUAL SIMULATION TECHNOLOGY

3.1.1immersion

In the application of virtual simulation system, the use of equipment can harvest the perception of hearing, vision, touch and other senses, so as to obtain an immersive feeling; an ideal virtual simulation system should have corresponding perception function, so as to lead the user's real feelings of perception information.

3.2. interactivity

The environment of this technology system can act on people's feelings, and people can effectively control the environmental problems in it, and people control the virtual environment in the form of close to natural behaviors, body movements, and their own language. respond accordingly[3]. For example, when the user simulates the work of the pilot and presses the missile launch button, he can see the real state of the missile launch through the virtual environment, and track the virtual target for activities. If the missile collides with the

target, it will explode. At this time, the user can see the fire and debris of the explosion in the virtual environment.

4. BRIEF DESCRIPTION AND CHARACTERISTICS OF COLLEGE STUDENTS' SOCIAL PRACTICE

Social practice refers to all movements in which human beings transform society through their own behavior or agency. Under normal circumstances, the social practice activities of college students are college students going out of school for the corresponding practical teaching in colleges and universities. It is a planned and organized behavior to enter the society. Through practice in the society, the college students can fully understand the process of social development and The prospect of social development, so as to make their own contribution in the society, the general name of this activity is the social practice activity of college students.

5. THE RELATIONSHIP BETWEEN COMPUTER INFORMATION VIRTUAL SIMULATION TECHNOLOGY AND COLLEGE STUDENTS' SOCIAL PRACTICE ACTIVITIES

With the development of information technology, computer information technology has been widely used in all walks of life in our society, and network technology affects people's way of life and social and economic development. Because college students are quite special, they can quickly master the use of network technology through their own abilities, and at the same time, they can obtain a large amount of information through information technology. College students' extensive attention to political life and social life has made them closely related to information technology[4].

Practice has proved that the effective use of computer information technology in the social practice activities of college students can promote the development of practical teaching and improve the information literacy of college students. Through network technology, college students can not only learn relevant content about politics, culture, and economy, but also express comments on political demands through the Internet platform. Therefore, computer information technology is the main platform for college students' social practice. The application of computer information virtual simulation technology in actual social practice activities can broaden the field of students' learning. College students can participate in more practical activities in the virtual society, and can also play different roles to experience different practical feelings. For example, college students can experience from ordinary community management staff to more large-scale enterprise leaders in a virtual environment, so as to experience the real social life and social development environment in advance.

6. MEASURES FOR APPLYING COMPUTER INFORMATION VIRTUAL SIMULATION TECHNOLOGY TO COLLEGE STUDENTS' SOCIAL PRACTICE ACTIVITIES

First of all, colleges and universities should increase capital investment, actively introduce advanced information technology, and create a good practice platform for students; innovate the idea of planning social practice activities of college students, and incorporate practice activities into practical teaching planning; improve the awareness of information technology use , widely use virtual simulation technology in the social practice activities of college students, and at the same time reasonably arrange practical activities, enrich the practice form and practice content, so as to improve the professional ability of college students, and promote college students to improve their comprehensive ability through the virtual simulation system[5].

Secondly, according to the goals and relevant requirements of the social practice activities of college students issued by the Central Committee of the Communist Youth League, on the premise of applying computer information technology to ensure the quality of students' education, organically combining theory and practice, so as to promote the all-round development of students. Therefore, colleges and universities should strengthen practical and virtual practical teaching to form a complete, systematic and brand-new practical teaching system.

Finally, colleges and universities should actively integrate social forces, increase the intensity of enterprise cooperation, and broaden the practice channels for college students by increasing fund-raising channels, so as to ensure the orderly progress of college students' social practice activities. In addition, it is necessary to continuously build an effective social practice base, and strengthen the functionality of the practice base in accordance with the requirements of social development[6]. At the same time, we must actively strive for the support of social forces, and provide various practical positions and corresponding living and material conditions for the social practice of college students. As for the funding for carrying out practical activities, colleges and universities should give full play to their scientific research advantages and the characteristics of innovative talents, and find multiple channels to raise funds for practical activities, so as to promote the effective development of social practical activities of college students.

7. CONCLUSION

The active use of computer information technology in the practical activities of college students can promote the practical life of students, and at the same time bring

students a different professional experience. Therefore, when colleges and universities carry out social practice activities of college students, they should continuously enhance the integration of real social practice and computer information virtual social practice, so as to form a standardized, complete and brand-new social practice system.

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