

# Research on Permeation of Humanistic Spirit to Computer Education in Colleges and Universities

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**Keywords:** Humanistic spirit, Computer education, Permeation education

**Abstract:** With the development of social economy and science and technology, computer education plays an increasingly important role in university education. Traditional computer education pays more attention to scientific theory and technical operation in practice, and does not attach enough emphasis on humanistic spirit, which has a negative impact on the future development of students in computer major. This paper discusses the reasons for the lack of humanistic spirit in computer education in colleges and universities, and gives the suggestions of permeation of computer culture, permeation of network culture and permeation of innovation culture to provide some references for the relevant researchers.

## 1. Introduction

The rapid development of computers brings new challenges to universities [1]. The constant updating of new technology and new products has brought great pressure to the university computer major. Universities do not have a lot of money to buy the latest equipment and the latest software and hardware configuration. In addition, computer teachers do not have much time to update their computer professional knowledge and technology, so that the efficiency of teaching teachers will be greatly reduced, making computer education cannot keep up with the trend. At present, many colleges and universities computer education can also grant students a lot of professional knowledge, relatively can provide students with a better learning environment, updated learning equipment, but the humanistic quality is not satisfactory. For non-computer majors, they are very different in learning environment and equipment, they just learned some basic computer knowledge, not deep understanding of computer knowledge and application fields, humanistic quality education is even more imminent. Therefore, in general, computer education in Colleges and universities is that computer knowledge acquired by students is acceptable in a certain point of view, basically some basic work they can handle, but the humanistic quality education is relatively poor, which is the biggest difficulty in the integration of computer teaching and humanistic quality education. Due to the emphasis on pure operation technology and the neglect of humanistic spirit education, College Students under the current computer education system show a variety of unsatisfactory points. Although these phenomena are not only the result of the neglect of humanistic spirit in computer education, but also the result of a combination of individual, family, school, society, scientists and other factors. Computer education in universities bears an inescapable responsibility for the emergence and spread of these phenomena [2].

## 2. Reasons for Lack of Humanistic Spirit in Computer Education in Universities

### 2.1 Misunderstanding of Computer Technology.

Science and technology include both spiritual and cultural dimensions, as well as utilitarian and practical technological dimensions [3]. From the perspective of spiritual culture, scientific culture is a unity of scientific knowledge, scientific methods and scientific spirit, which covers three aspects: truth, goodness and beauty. In nature, it has some commonalities with humanities. Like language,

literature, morality and other disciplines, it plays an important role in improving people's mind and promoting the all-round development of people's spirit. The negative effects brought about by modern science and technology are actually the result of modern people's understanding of science only as utilitarian practical technology, which makes science and technology develop unilaterally. We should vigorously promote the scientific spirit and cultural spirit of computer technology. Science has never been a tool, but a spiritual culture. Because of the influence of the supremacy of science and technology, science education has risen to the highest position in university education. The humanities education was despised and slipped to the lowest point. The computer specialty in Colleges and universities usually attaches great importance to and guarantees the development of science and engineering, while humanities is difficult to get priority. Students often choose to study science and engineering first, and humanities is a choice that many people have to choose; and humanities education itself, under the strong influence of science and technology education, tends to become knowledgeable, only attaching importance to the imparting of Humanities knowledge, while ignoring the core content of Humanities education. The purpose of computer courses is very simple, just to get a good job and a high income after graduation. On the contrary, we do not pay enough attention to the real scientific education aimed at improving people's cognitive and innovative ability and cultivating rational scientific spirit. In fact, this situation is extremely worrying. It is not enough to educate people with professional knowledge. Through professional education, he can become a useful machine, but cannot become a harmonious person.

## **2.2 Defect of Examination-Oriented Education.**

From elementary school to university, students have access to a lot of scientific and humanistic knowledge, but few have access to systematic education in this area. In order to cope with the college entrance examination, Chinese students have been carrying out examination-oriented education for a long time. In order to cope with the college entrance examination, they have implemented the liberal arts and Sciences Division at the middle school stage. They only pay attention to the study of the entrance examination content, which seriously affects the cultivation of overall quality. In this regard, not only did colleges and universities not give timely remedies, on the contrary, pay attention to professional education, weaken the tendency of humanistic edification, so that the humanistic quality of computer students is not high. The current education model cultivates students with narrow knowledge, weak cultural background, lack of basic cultural knowledge and artistic accomplishment, lack of creativity and ability to adapt to society. This kind of educational purpose, mode and means of evaluation obliterates the cognition, education and aesthetic individuality of humanities, ignores the functions of emotional education, aesthetic education and ideological and cultural quality education of humanities, and results in the low humanistic quality of students. Many colleges and universities have implemented new teaching plans, set up humanities courses, and cultivated the humanistic spirit of students. But generally speaking, there has not been much change in the educational means and methods that have been formed for a long time. In terms of teaching methods, we still adhere to the traditional classroom teaching, training memory as the center of the teaching method, students are completely in a passive state, unable to give full play to their enthusiasm, initiative and creativity in learning. Teachers in computer science only pay attention to the imparting of humanistic knowledge and ignore the internalization of humanistic spirit. Some colleges and universities, when carrying out humanistic education, are eager for quick success and instant benefit, copy the model of scientific education, and train basic humanistic ability as a kind of skill [4].

## **2.3 Disadvantage of Market Economy.**

Some negative effects of the market economy are also one of the reasons for the lack of humanistic spirit of computer majors. The development of market economy is an inevitable trend of the development of human society, but market economy has its negative effects. It often attaches importance to the interests, but ignores the long-term interests; attaches importance to the level of tools, but ignores the level of value; attaches importance to the pursuit of reality, but ignores the pursuit of ideals. Under the condition of market economy, the setting up of computer specialty in

universities is not based on the need of developing the subject system in an all-round way, but simply considers the market demand and neglects the education of college student's all-round development. Introducing the law of value and the principle of profit which the market economy follows into the spiritual life will easily induce people's thoughts of money worship, profit-seeking and individualism, which will have a negative impact on human spiritual and cultural life. As a member of the society, colleges and universities will inevitably be negatively affected by the market economy, so that university education is simply serving or even serving the market economy, according to the needs of the market to determine the development of colleges and universities and the construction of disciplines, design for the training and education of students. Human knowledge and literacy are not utilitarian and practical in nature. Therefore, under the control of narrow market orientation and economic motivation. With the development of economy, the tendency of marketization of society is becoming more and more obvious, which leads to the loss of humanistic spirit. The marketization and secularization of humanistic science weakens the role of humanistic spirit as the driving force of social development. In the society, the serious humanistic arts and elegant art were commercialized into a less sophisticated business culture. Because the humanities education content of computer specialty is difficult to serve the market economy directly, it is often excluded by the market economy.

### **3. Permeation Paths of Humanistic Spirit to Computer Education in Universities**

#### **3.1 Permeation Paths of Computer Culture.**

Computer culture refers to the cultural characteristics, cultural clusters and morphological changes of cultural systems brought about by the development and wide application of computers. The emergence and development of any scientific knowledge cannot be separated from a certain social background, more inseparable from the persistent pursuit of scientists. Science in the creation of material civilization, but also created a spiritual civilization, computer science is no exception. Therefore, there is not a lack of humanistic spirit in the teaching content of computer knowledge. Teachers should fully tap the humanistic connotation in professional textbooks, fully display the charm of computer science to students, and guide students not only to see the theoretical knowledge printed in books, but also to let students understand a wider range and a deeper range. The degree of computer science and culture, fully mobilize professional learning enthusiasm and interest, cultivate students' persistent pursuit of science spirit. The correct way of thinking must be truly grasped by students' own learning and scientific practice. Teachers should guide and help students in the process of practice, and when students make mistakes, properly point out his ideological and methodological problems and correct them. The correct way of thinking can be summed up from the scientific and successful research experience. People's thinking situation is often influenced by the cultural tradition and social values of historical accumulation. From this point, we can see that creating a creative humanistic environment is an important task for universities and teachers. To put computer knowledge in the context of culture, teachers themselves should have a high level of computer literacy. Teachers should love this subject, have a broad range of computer knowledge, have their own vision and insights, teaching will have an impact and appeal, so that students can produce computer science knowledge.

#### **3.2 Permeation Paths of Network Culture.**

With the rapid development of information revolution, computer network has become a necessary means and tool for college teachers and students to study, work and live. College teachers and students are not only digestors, absorbers, disseminators and users of advanced computer network knowledge and technology, but also researchers and developers of these knowledge and technology. They make use of computer and network technology to disseminate and create knowledge and culture activities to form a unique network culture in Colleges and universities. Colleges and universities should strengthen their management and control of the campus computer network, and build a

reasonable campus network culture. We should attach importance to the humanistic spirit education in campus network, encourage and guide college students with positive characters and deeds, cultivate their correct concept of right and wrong, and combine network morality with computer education. In the computer network, we should not only advocate the inclusive and pluralistic development, but also perfect the supervision, purify the network space and control the unhealthy phenomena in the campus network. Humanistic concern should be injected into the development of information network technology, especially the organic combination of scientific spirit and humanistic spirit, the conscious development of science and technology full of humanistic concern, and the conscious development of human morality with scientific spirit. It is very useful to prevent the alienation of information and symbols in cyberspace and control the emergence and spread of social problems in cyberspace. To strengthen the network moral education in universities, we should solve the problem of computer ethics or network ethics entering the textbooks and classrooms. We should strengthen the study of network moral problems, formulate network moral behavior norms, and construct a system of moral concepts in accordance with the electronic network or virtual society.

### **3.3 Permeation Paths of Innovation Culture.**

Cultivating humanistic quality is not only confined to the campus, but also allows students to go out of school and penetrate into the society, such as using their professional knowledge to provide computer maintenance and troubleshooting services for residential areas, providing network information services for community hospitals, and so on. Literacy education is of great significance. Practice course in computer professional education is the training of ability to solve practical problems by using what they have learned. Students usually encounter difficulties and failures in experiments. Teachers should encourage students to accept difficulties actively and guide students to eliminate mistakes in experiments. This not only improves the ability to analyze and solve practical problems, but also exercises their indomitable perseverance. Students' innovative consciousness can also be cultivated in the training of practical courses. Teachers can arrange more flexible experimental content to guide students to analyze problems with a research attitude, actively encourage students to play their own wisdom to boldly innovate and come up with different experimental methods. For some good innovation and experimental results to score and display, in order to stimulate students' enthusiasm for innovation. Under the background of humanistic literacy education, the form of basic computer teaching should be extended to the second class horizontally, which not only makes students realize the value of learning directly and sensibly, but also improves comprehensive ability to solve practical problems with computers. It further strengthens the interest and recognition of computer basic knowledge learning, and stimulates the students' initiative and innovative spirit in learning. In addition, teachers can arrange students to complete the experiment in groups. Each student in the same group has a clear division of labor and cooperates with each other. Everyone completes the experiment task together in exchange and cooperation, so that students can establish team consciousness and develop the ability to communicate and cooperate with others.

## **4. Conclusion**

The lack of humanistic spirit in university computer education has attracted the attention of some universities. However, in general, there are still some problems, such as the lack of attention from the competent departments and the relatively low humanistic qualities of university teachers. The integration of computer teaching and humanistic quality education in universities is very important for modern computer teaching. The students trained by this teaching method are the modern construction talents needed by the major enterprises and play an important role in the steady development of the computer industry.

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