Research on the Impact of Computer Network on Campus Security Management of Universities

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Abstract. Computer network has been integrated into every aspect of our daily work, and the impact brought to the security work of colleges and universities should not be underestimated. It is important to know that the security work in colleges and universities concerns the safety of life and property of teachers and students, the general situation of education reform, development and stability, and the happiness and harmony of hundreds of millions of families. In order to do a good job of school security and stability, maintain the good image of education system and build a safe campus, it is the purpose of this paper to discuss the influence of computer network on the campus security management of colleges and universities and to minimize the negative influence.

Keywords: Computer network, Security Management, Impact, Measures

1. Introduction

To protect the fundamental interests of the majority of teachers and students and life safety, to ensure normal teaching order is necessary to develop relevant campus safety management program, to promote campus harmony, stability, a high degree of full awareness of the importance and necessity of school safety work, conscientiously implement the "safety first, prevention-oriented" policy, to the people responsible for In order to promote campus harmony and stability, we fully understand the importance and necessity of school safety work, conscientiously implement the policy of "safety first, prevention first", and take responsibility for the people, teachers and students with a high attitude, and deal with the relationship between school safety work and improving the quality of education and teaching. The school safety management program incorporates safety work into the school's important agenda and takes necessary measures to ensure that school safety work is put into practice, creating a safe and peaceful working and learning environment for teachers and students [1].

2. The current situation of security management in colleges and universities in the network era
The rapid development of computer technology and communication technology brings great convenience to people's life, but also brings a lot of information, and some of the unhealthy information may even seriously affect the development of college students' values and their daily behavior, thus bringing great challenges to the security management of colleges and universities. In recent years, internal conflicts among college students have occurred from time to time, and cases of financial theft are not uncommon. The security management of colleges and universities has become one of the issues of general concern to the society. We can find that many of the campus cases in recent years are related to network information. This requires to strengthen the security management of colleges and universities in the network era [2].

With the rapid development of network, the diversity, concealment, immediacy and internationality of network, coupled with the inability or lack of supervision makes the network illegal crimes increase dramatically. The construction of working mechanism, staffing and technical equipment of security management in colleges and universities is not perfect, which makes the security management in colleges and universities face unprecedented challenges.

Figure 1. The current situation of security management in colleges and universities in the network era

2.1. System loopholes and weak network security management

Strict management system is an important guarantee for network security. If there are loopholes in the management system, it is very easy to lead to the formation of network risks. As the use of network in China's colleges and universities is still in the initial stage, the relevant management system is not perfect in the face of the current increasingly serious situation of network security in colleges and universities, the lag of the management system makes network security face the risk of lack of management.

2.2. Technology is insufficient
Campus network security system lags behind at present, many colleges and universities in the center of the campus network maintenance server is still based on Windows Server 2003 operating system, students use computers generally based on Microsoft's Windows XP operating system. This system itself has a large design defect. At the same time, although colleges and universities have achieved network coverage in teaching and research, prevention and control management and other aspects, but the security prevention and control technology and equipment are seriously backward, and the security prevention and control level is generally low. Nowadays, incidents such as the exposure of school students' privacy or the invasion of college campus network system by hackers often appear on the network are examples. The current network security defense system construction of colleges and universities is relatively lagging behind and lacks sufficient technical means to resist network invasion [3].

2.3. Lack of professionalism and uneven quality of personnel

The security team in China's colleges and universities generally has low education and most of them have not gone through professional network security management training, and the quality of personnel varies, so they often work in a simple and rough way, and are often helpless to deal with some high-tech crimes caused by network, which is difficult to adapt to the security management needs of colleges and universities in network environment.

3. Security management problems caused by Internet information dissemination

The huge amount of information in the Internet era is not available in any traditional way of information dissemination. While this information provides convenience to students, it also has a greater impact on them and subsequently affects the security management of the campus. The analysis can be attributed to the following aspects.

3.1. The popularity of online games

It is undeniable that the production level of online games has become more and more sophisticated in recent years, and from computer games a few years ago to mobile games in the past two years, online games are entering people's lives step by step. In college campuses, games have also become one of the main topics of students. Some students are addicted to online games and can't extricate themselves from them, and it's not uncommon to see them surfing the Internet for days on end. In some schools with strict management, some students tend to do a series of dangerous behaviors such as jumping out of windows and over walls in order to access the Internet. In addition, in order to play games better, charging money has become an inevitable choice. This has laid a security risk for college students to commit crimes [4].

3.2. "Campus loan" and other online loans

The advent of the Internet era has successfully stimulated students' vanity and comparison mentality. Terms such as make-up, famous brands and online shopping have become widely popular among students. In order to satisfy their vanity, some students choose to take out online loans such as "campus loans" with extremely low thresholds. However, while campus loans bring students convenience, they also drag them into a quagmire from which they cannot extricate themselves. Many students are forced to commit various illegal acts, and some of them are overwhelmed and choose to commit suicide.
"Campus loans" and other online loans are a serious threat to the security management of colleges and universities.

3.3. **Violent pornographic information floods the network**

The Internet is a very complicated system, which contains a lot of "pornography, gambling and drugs" and other bad information. Although the state has been repeatedly controlling it, it is still difficult to remove the violent pornographic information from the network at the root. College students are at a stage where they are curious about sex but don't know how to deal with it. Once students are exposed to such information, it may lead to sexual crimes or violence. The occurrence of this kind of cases also increases the difficulty of security management in colleges and universities to a certain extent.

3.4. **Negative information on the Internet directly affects the formation of students' values**

Negative information accounts for a large proportion of the Internet information that students are exposed to, and if it is not dealt with effectively, it will definitely affect the formation of students' values. In contrast, students' judgment ability is not fully developed, and they are not able to screen effective information. For example, some so-called "fashion" information, "entertainment" information and "news" information bring laughter to students but also produce extremely negative information for students. Some extreme remarks gradually appear in the discourse of college students, which has laid a great hidden danger for the security management of colleges and universities.

4. **Impact of computer network on the security management of universities**

![Figure 2. Adverse effects](image)

**Figure 2.** Adverse effects

4.1. **Network information is of good and bad quality, which may cause confusion of students' values**

The network as an information platform has the characteristics of internationalization, openness and freedom, and students can get a lot of information of the outside world on the network. It brings unstable factors to the security management of the campus [5].
4.2. The proliferation of yellow pollution on the Internet and the occurrence of crimes on campus.

Due to the complexity of network supervision and the unsoundness of the supervision system, there is a lot of pornographic information on the Internet, resulting in students being exposed to these contents intentionally or unintentionally, leading to sexual crimes or violent behaviors, and these new features of campus crimes make the security situation of schools more complicated and severe.

4.3. Internet addiction is widespread, and security work has hidden dangers.

Some students with little self-control are easily addicted to it, which leads to phenomena such as students being addicted to online games or online one-night stands, making the security work of schools in danger of being triggered.

5. Suggestions of measures to strengthen the security management of colleges and universities in the network era

College students are the future of the country, the main force of our country's modernization in the future, the future master of the country. It is our responsibility to do a good job of security management in colleges and universities and provide a good student and living environment for students. With the deeper and deeper influence of the network era on college students, the challenges faced by the security management of colleges and universities are also more and more severe. Facing this form, we must actively analyze the causes that trigger the security problems in colleges and universities and make scientific management strategies [6,7].

5.1. Establish a sound security management system in colleges and universities

A sound security management system in colleges and universities is an important guarantee to ensure the smooth implementation of security management in colleges and universities, and also an important measure to improve the level of security management in colleges and universities. In this regard, it is necessary to establish a sound college management system to meet the needs of college security management in the network era. To establish a sound college security management system, we must first analyze the current problems in college security management, find out the problems and shortcomings and solve them, and make scientific, reasonable and effective construction plans on this basis to gradually realize the construction of college security management system. The security management system of colleges and universities must be a comprehensive management system that gives full play to the advantages of management at the three levels of colleges and universities, faculties and classes. By giving full play to the management advantages among various departments, a comprehensive and effective security management system can be established. When establishing the security management system in colleges and universities, it must clarify the primary and secondary relationship within the system and the division of responsibilities among various departments. Each management personnel has their own duties to complete the security management work in colleges and universities together.

5.2. Optimize college network and improve network security
In recent years, the state has promulgated a series of laws and regulations to purify the Internet. The security management work in colleges and universities must be carried out from being able to effectively control the bad information on the network. In this regard, university campus security and safety department must actively cooperate with university network management department to purify the university network. Strengthen the filtering of bad information to avoid some bad information from flowing into the campus network. Develop an effective management system, strengthen the supervision of college network security, and deal with the problems in time once they are found to ensure the safety of campus network [8,9].

5.3. **Strengthen the application of computer technology**

Reducing the influence of the network era on students and then improving the security management of colleges and universities is necessary to be solved by computer technology. In this regard, university technology must increase the investment in the prevention and control technology of campus network and improve the security of campus network by updating and improving the prevention and control equipment and technology of campus network. By establishing information center and other ways to comprehensively sort out university network security, discover security problems and solve them in time. Make the construction of campus network firewall and strengthen information screening and information protection. Focus on improving the protection of teachers' and students' information and scientific research information. Real-time monitoring of campus network information and timely removal of problems once found. Reduce students' exposure to undesirable information through network purification. Thus, the security of network information is improved.

5.4. **Strengthen the construction of security management team in colleges and universities**

We should strengthen the security management of colleges and universities from the source and also do a good job in the construction of college security management team to enhance the ability to deal with emergencies and reduce the probability of violent incidents and illegal incidents in colleges and universities. The construction of college management team mainly contains two aspects. First, strengthen the training of the team and improve the professional quality of the security management personnel. In this regard, centralized training and expert lectures can be adopted. Secondly, strengthen the introduction of talents. In order to solve the problem of network problems on college students, it is necessary to actively introduce professional talents with high network technology and computer technology. Through the introduction of professional talents to strengthen the students' screening ability of bad information [10].

5.5. **Strengthen campus publicity**

To thoroughly solve the influence of network environment on college students and improve the efficiency of college security management, in addition to a series of control measures, it is necessary to strengthen the propaganda and education work for college students and fundamentally improve the ability of college to identify information. In this regard, schools, faculties and classes must actively carry out special educational activities, make full use of the educational functions released by campus network, campus radio, school public number and microblog, and actively guide students to develop students' online habits. In addition, schools must also hold appropriate activities to attract students' attention,
strengthen communication among students, and guide students to get out of their dormitories and participate in sports, class activities, and social practices.

A perfect security management system is the precondition for the successful application of campus network prevention and control system. Therefore, in view of the lack of relevant management system in colleges and universities, the current situation should be investigated and improved in a targeted manner. On the one hand, the security management system of school, faculty and department is established, and according to the principle of "who is in charge and who is responsible", all of them are in charge and comprehensive management, so as to achieve unified leadership, clear responsibility and implementation of tasks to people; on the other hand, the security management system of campus network is improved, and "Internet harmful information management measures" are formulated. "The Security Office cooperates with the Campus Information Center to strengthen the management of the campus network, and to establish a system of emergency handling and regular bang estimation, so that once there are hidden dangers, measures can be taken immediately to control the danger and minimize the damage.

We attach importance to the training and cultivation of campus security management technical force, increase capital investment, improve and update campus network security prevention and control equipment, and establish a unified information security center, so as to sort out the security pattern of campus network. Further improve the existing firewall of university network, implement different levels of protection for the impact caused by the destruction of campus information system, and implement encryption management for important files to ensure security. At the same time, strict data transmission, storage, key management, etc., real-time monitoring of the network, timely removal of false and harmful spam information, to eliminate pollution, control the source of information, to achieve the correct source. We will actively cooperate with the public security department to investigate and deal with the illegal network cases on campus, and formulate targeted measures to strengthen prevention and prevent the recurrence of similar incidents, so as to ensure the stable operation of campus network at all times [11].

In the new situation, in view of the lack of network technology in the security team of colleges and universities, we should "feed the horse and strengthen the troops" and enhance the quality of personnel. On the one hand, some professionals who know both technology and management are selected and recruited to the full-time team to ensure the active and effective campus security management; on the other hand, information security training is held from time to time to cultivate the legal knowledge, technical methods and management ability of computer and network security for the security team, master the laws and regulations in the network environment, learn to think and solve new problems in new areas and problems, and be able to use them skillfully. They should be able to use what they have learned to track the illegal cases using campus network in time, and train up a new type of security team with high-tech quality to meet the development needs of network era. Again, we should do a good job in information security education, vigorously promote information security laws and regulations on campus, popularize network security knowledge, focus on improving students' awareness of legal system and network security ability, constructing ideological firewall, and creating a good environment for security management in colleges and universities.

6. Conclusion
Campus security management is always one of the important factors for colleges and universities, because a stable, harmonious and orderly campus environment is an important guarantee for the normal work, study and life of all students and teachers in every school. It is the goal of school security personnel to make teachers, students and parents feel and experience a "warm, harmonious and safe" campus environment. With the influence of the computer network, we have to pay more attention to its negative effects and give our students a safe campus environment.

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