How to Use Computer Network Technology to Strengthen the Management of Ideological and Political Work

Ping Tang*
Wuhan Donghu University, China, 430212

*Corresponding author e-mail: PingTang111@163.com

Abstract. The extensive application of computer network technology has led to fundamental changes in the world outlook. A brand new era, the era of network, has come. The rapid development of network technology has also impacted the ideological and political education of students profoundly, bringing unprecedented opportunities and challenges to their ideological and political education. In this paper, preliminary exploration is made on these issues.

Keywords: Computer Network, Ideological and Political, Management, Counter-measures

1. Introduction
With the continuous development of modern information technology, the Internet is also entering our lives at an unimaginable speed [1]. The Internet has shown the infinite charm of technological power in the fields of politics, economy, science, and culture. The network is exerting its tremendous influence, rapidly changing people's mode of production, way of life, and mindset, thus triggering a profound social change [2-3]. With the development and popularization of campus network technology, the number of Internet users who take college students as the main body is increasing day by day. The computer network has become an essential channel for college students to acquire knowledge and various information and has a profound impact on their study, life, and even their ideas [4]. However, from the perspective of the history of human science and technology, the development of any science and technology is a double-edged sword, which not only has a positive impact on social development but also inevitably brings many adverse effects. The development of the network is no exception [5-6]. The network not only provides a rare opportunity for ideological and political education in the institutions of higher learning but also brings severe challenges. In the face of the surging development of the Internet, the party and the government put forward in time the requirements of being regular and making good use of the Internet, seizing the network position, and striving to enhance the timeliness of
College Students' Network Ideological and political education. Therefore, how to ensure the ideological and political education of college students to seize the opportunities and meet the challenges under the network environment is a new subject put forward by the times.

2. Effect of the application of computer network technology on the ideological and political education of students

The development and popularization of network technology not only provides a new work carrier for the ideological and political work of enterprises but also puts forward a severe challenge. Ideological and political workers should grasp and use computer network technology to effectively improve the scientific and technological content, and achieve the modernization of ideological and political work. Based on the office automation network, Jinan Railway Branch has developed the ideological and political work management application software, strengthened technical training, and vigorously promoted the implementation. It has initially formed a “three-level” network operation pattern of branch offices, stations, and workshops, improved the pertinence and effectiveness of Ideological and political work, and promoted the coordinated development of the two civilized construction of branch offices.

The improvement of knowledge is the basis of the implementation of network management. With the development of information technology, amazing changes have occurred in society and the economy. As the fourth media, along with newspaper, television, and radio, computer network has played an increasingly prominent role in people's production and life. Since the nineties, the management modernization of the enterprise's capital flow and material flow system has reached a specific scale. As the most critical and active person in the enterprise management elements, only by continuously improving its scientific and modern level can the overall level of enterprise management be enhanced. Firstly, the methods and carriers of Ideological and political work should be innovated constantly, making full use of computers and networks, strengthening the collection, judgment, analysis, processing, processing, feedback and storage of various information, to make decision-making and management more efficient, accurate and effective; second, the thinking mode of the ideological and political workers should be changed in time, while adhering to and carrying forward the fine tradition of Ideological and political work, they should learn to The improvement and strengthening of Ideological and political work can be implemented based on systematic, three-dimensional, divergent, network, and other computer-related thinking methods. Our branch has formulated the implementation opinions on the use of computer network technology to improve the modernization level of Ideological and political work, focusing on organizing leading groups at all levels to study and discuss, to improve the understanding of the importance and necessity of using computer network technology to strengthen the management of ideological and political work.

3. Analysis of ideological and political education of students based on computer network technology

In most studies, factor analysis is often used to analyze the validity of questionnaire data. KMO test and Bartlett spherical tests were carried out for 5 potential variables, respectively. See table 1-2 for summary data. Generally, KMO statistics greater than 0.9 is the best, more than 0.7 is acceptable, and less than 0.5 is not suitable for factor analysis. From the table, we can see that the KMO value of each
potential variable is mostly 0.7, only the KMO value of the counselor is 0.653. Hence, factor analysis can be performed to obtain significant results based on some variables. The Sig value of the Bartlett spherical test is less than 0.01, suggesting that there is a significant correlation between the observed variables in the questionnaire, and the questionnaire data is suitable for factor analysis.

Assume that there are \( n \) Each research object has two vectors of input and output, which are \( X \in R^n \), \( Y \in R^k \). The input-output matrix is defined as: \( X = [x_1, x_2, \ldots, x_n] \in R^{m \times n} \), \( Y = [y_1, y_2, \ldots, y_n] \in R^{k \times n} \). \( X > 0 \), \( Y > 0 \). Under the condition of constant scale, the possible production set is obtained

\[
P = \{ (x, y) | x \geq X \lambda, y \leq Y \lambda, \lambda \geq 0 \}
\]  \hspace{1cm} (1)

Based on the analysis model of computer network technology, its expression is as follows:

\[
\rho = \min \left\{ \frac{1 - \left( \frac{1}{m} \sum_{i=1}^{m} s_i^2 / x_{i0} \right)}{1 + \left( \frac{1}{h} \sum_{r=1}^{h} s_r^2 / y_{r0} \right)} \right\}
\]

\[
\begin{align*}
x_0 &= X \lambda + s^- \\
y_0 &= y \lambda - s^+ \\
\lambda &\geq 0, s^- \geq 0, s^+ \geq 0
\end{align*}
\]  \hspace{1cm} (2)

Table 1. Reliability analysis of questionnaire data

| Latent variable                                      | Cronbach's | Standardized Cronbach's | Item number |
|-----------------------------------------------------|------------|--------------------------|-------------|
| Ideological and political education infrastructure construction | 0.736      | 0.783                    | 3           |
| Teaching resources                                  | 0.810      | 0.854                    | 3           |
| Counselor                                           | 0.683      | 0.691                    | 3           |
| Ideological and political education service for Counselors | 0.856      | 0.859                    | 3           |
| Students’ Ideological and political education satisfaction | 0.823      | 0.827                    | 3           |
| Total                                               | 0.831      | 0.836                    | 15          |

Table 2. Summary of validity analysis of questionnaire data in the KMO and Bartlett tests

| Latent variable                                      | KMO        | Sig.       | Item number |
|-----------------------------------------------------|------------|------------|-------------|
| Ideological and political education infrastructure construction | 0.746      | 0.000      | 3           |
| Teaching resources                                  | 0.913      | 0.000      | 3           |
| Counselor                                           | 0.653      | 0.002      | 3           |
| Ideological and political education service for Counselors | 0.932      | 0.000      | 3           |
| Students’ Ideological and political education satisfaction | 0.762      | 0.000      | 3           |

Strengthening technical training is an important step to realize the network management of Ideological and political work. In the network era, cadres at all levels, especially political workers, must step up “charging”, enhance their awareness of science and technology, and have a scientific and technological vision to demonstrate their actions better. Political work cadres must understand the impact of scientific and technical progress on the ideological, emotional and lifestyle of the cadres and workers, master more computer operation, network technology, and software application knowledge, consciously apply network technology to ideological and political work practice, to make ideological
and political work more in-depth, solid and effective. For this reason, last year we held 11 training courses on computer network technology knowledge attended by leading cadres and propaganda cadres, which promoted the implementation of computer network management in the ideological and political work of the whole branch.

Strong promotion is a necessary means to ensure the standardized operation of the ideological and political work computer network management system. The application of computer network technology in the management of Ideological and political work is a brand-new subject as well as a systematic project, involving many aspects such as hardware configuration, network construction, software development, and application, etc. In the practical operation process, leaders at all levels should strengthen organization and coordination, support and cooperation from all aspects, joint management, and strong promotion by responsible departments and professionals, Pay close attention to the implementation of the work. We combine the high starting point of application software development with the full use and continuous update of existing equipment and networks, which not only leaves room for the subsequent expansion and development of application software, but also can be accepted by existing network equipment, speeding up the pace of promotion; we combine the selection of pilot projects with comprehensive promotion, which not only enables the units with the conditions to taste the sweetness step by step, gain experience, but also lead by point, Grasp the pace of promotion, and constantly improve the promotion measures; combine the network construction and standardized management, not only gradually improve the information channel, improve the transmission rate, but also make the collection, transmission, and processing of information realize standardized operation, gradually form the institutionalization and standardization of network construction and management, and realize the maximization of the benefits of Ideological and political work. At present, we have all realized the “two-level” networking operation of necessary stations and sub bureaus, and 14 units have realized the “three-level” networking operation of workshops, stations, and sub bureaus.

After the implementation of the computer network management of Ideological and political work, through the network, the leaders of the sub bureau can receive the weekly classified information of the grass-roots stations and sections, carry out the monthly special investigation of employees' thoughts and the quarterly comprehensive investigation; the workshop employees can directly communicate with the leaders through the network, The ideological reflection and opinion requirements of the staff can appear on the computer table of the leading office at any time. The rapid processing of information not only shortens the ideological distance of cadres and staff, but also plays a decisive role in optimizing decision-making in time, promoting management in place, and improving the effectiveness of Ideological and political work. Each unit can directly access the superior documents, and the experience and practice of the brother units through the LAN and the leaders of the Branch Bureau can also directly access the database of the station and depot through the network to access the realistic situation of Ideological and political work and the relevant data of assessment so that the ideological and political work situation of each unit can be presented in a timely and intuitive manner, where each unit carries on the qualitative and quantitative examination to the ideological and political work through the computer network, carries on the effective analysis processing to the related data, the question and the insufficiency are clear at a glance, not only has improved the decision-making and
the management accuracy, moreover is advantageous to enhance the capabilities of managers in the analysis and decision-making. The primary data of ideological and political work in all units are included in computer management, making the original complicated and inefficient office and management methods simple and clear. Political cadres can also have more energy and time to go deep into the production line, to improve efficiency, order, and intensification dramatically.

4. Conclusions
The application of computer network technology to enhancing the management of ideological and political work has not only innovated the carrier and means of ideological and political work but also promoted its depth and expanded its space. In the future, we should further explore and practice, create conditions to access the wide-area network based on the existing local area network to implement the real sense of connectivity, obtain the available information of ideological and political work in a broader range, further broaden the field of vision, and adjust the working angle; make the best of the existing network, understand the hot issues of common concern to employees in a more profound level, strengthen the positive publicity on the Internet, and improve the targeted publicity and education; further develop and perfect the software products of computer network management for ideological and political work, properly combine the patterns and characteristics of ideological and political work and human-oriented management with computer language; strive to improve the theoretical literacy in managers and political cadres at all levels, continuously improve the knowledge structure, and change the mindset, further adapt to the general trend of modern enterprise management and ideological and political work, thereby effectively accomplishing the goal of strengthening and improving ideological and political work in enterprises.

References
[1] Cai, & Gui Ru. . The study of the ideological and political work management system based on asp.net. Applied Mechanics & Materials, 687-691, 2529-2532.
[2] Kupatadze, A. (2007). The ideological and political education work on the youth teachers in the era of constructing the harmonious campus in higher educational institutes. , 8(1), 40-57.
[3] Xu, & Jun Min. . The research of ideological and political work management system for college students based on j2ee. Applied Mechanics & Materials, 687-691, 2533-2536.
[4] Carolyn L. Hsu.. Political narratives and the production of legitimacy: the case of corruption in post-mao china. Qualitative Sociology, 24(1), 25-54.
[5] Sun, S. (2000). Ideological and political work still the important issues in the theory front of colleges and universities. , 53(7), 526-535.
[6] Liu, Z. (2016). Discussion on the Professionalized and Specialized and Experted Construction of Tutors Team in Colleges and Universities.