The Operation Mode of Network Education of Socialist Core Values in Higher Vocational Colleges

Zhang Jing

Kunming Vocational and Technical College of Intustry,Kunming 650302,P.R.China

Keywords: Internet; socialism; core values; fuzzy mathematics; minimum production tree; C language software

Abstract. Every day in the Internet emerged a large number of page about Study the Party Constitution and rules, become qualified Party members ,the socialist core value concept, through the network of micro channel and micro Bo forwarding, socialist core values has been deeply teachers and students in Higher Vocational Colleges in the mind, the development and stability of Higher Vocational Colleges caused positive influence, so under the network environment the socialist core value concept to built the well-off society is of great significance to study. In this context. In this paper, the use of relevant theory of fuzzy mathematics knowledge, combined with the Internet and the C language software programming control, to vocational college socialist core value concept of network education mode of operation for the main body of the network set up the detailed discussion. Firstly, through the form of questionnaire survey on vocational college students use network frequency were investigated. The results showed that students use network frequency increases with the passage of time, the students in Higher Vocational Colleges to primary and middle school students use the network with high frequency. Then, by combining fuzzy theory of minimum production tree on the network set up a mathematical model and weights depending on the school network is given, according to the weight, finally to the socialist direction of public opinion, the role of sites were set up, and the eventual establishment of a network to produce the smallest number and get the total weight.

Introduction

Socialist core value view has important significance for the development of students in higher vocational colleges. It is not only the students the basic ideological and political education, and for the construction of the discipline, the students work development has guiding significance, plays an important role for the maintenance of a harmonious and stable campus. But for the socialist core values of the work of network education mode of work is still relatively backward, basically in the primary stage, there is no perfect system theory. Under this background, this paper to propaganda as the mainstay of the Internet erection as the basis, in-depth study of the network set up in the process of school work mode and the network dependence, and established the network set up mathematical model by using fuzzy mathematics, the principle of minimum spanning tree, finally, the use of C language programming and control of the realization of the network optimization algorithm, network set up in the production of the smallest number and weight, socialist core value concept of working mode of the network education research provides a theoretical basis.

The popularity of the Internet and the possibility of the construction of the socialist core values

Network full of a lot of bad information, which will have a certain impact on the physical and mental development of Vocational College students. Therefore, it is necessary to set up the network to promote the socialist core values and enhance the role of the Internet in higher vocational colleges. In order to make the socialist core values education network set up possible, the socialist core value of Higher Vocational Colleges work smoothly, you first need to popularity of school population on the network using frequency and network were investigated, and the results of analysis of network set up the possibility of make a rational decision.

The of Yunnan Province 15 Vocational College (including college one, two, three were questionnaire, investigation contents mainly to the popularity of the network as the main content, by

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means of mathematical statistics to survey data treatment finally draw such as Figure 1 shows the findings report line graph.

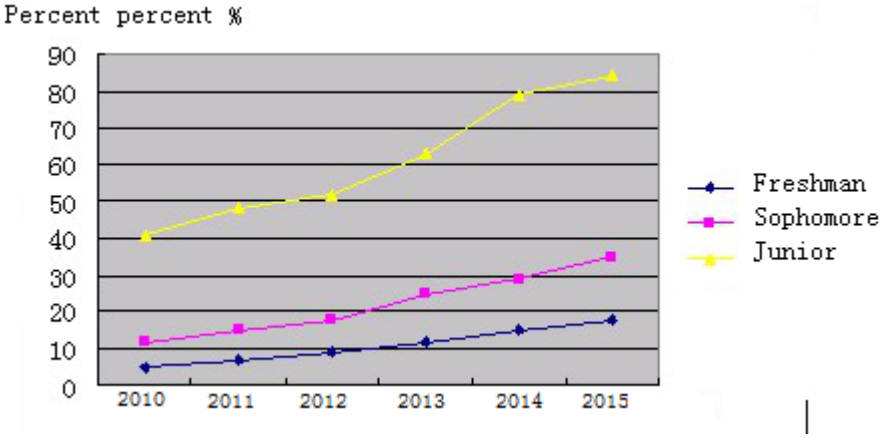

Fig.1 Survey of network usage

As can be seen from Figure 1, in recent years, higher vocational college students on the use of the frequency of the network is getting higher and higher, which provides a prerequisite for the promotion and the core values of the network set up. And three students as compared with plenty of time so the contact frequency of the network is the largest, is also the most vulnerable to socialism and to influence public opinion groups. Therefore, it is necessary in the higher vocational colleges set up promotion of socialist core value concept as the main function of the Internet.

The network education of the socialist core values in Higher Vocational Colleges

This paper to research in higher vocational college propaganda core value view of the function of Internet to set up the selected seven schools as united network set up the object, through research, guide students ideological and political and life learning and education. But between the school and the school set up the cost of the network is different. Therefore, it is necessary to a mathematical optimization algorithm of network of erection to optimize the design, finally found the network resources and leading factor playing a key role, which the network of the erection work.

For mounting of the network is often used in various shapes to the network topology, although from a certain extent, solve the network link and communication problems, but for network cost expenditure and to the extent of the network needs is not optimized. So in this paper, we introduce the structure of network topology, and combine the fuzzy algorithm to optimize the network structure. In the first place, the fuzzy set of the seven school network hypothesis is, then there is the expression of the formula (1):

$$P_B(x) = \begin{cases} 1 & , x \in B \\ 0 & , x \notin B \end{cases} \qquad (1)$$

In which, $P_B(x)$ represents the membership function, mainly in the [0,1] value, which x reflects the relative degree of B membership.

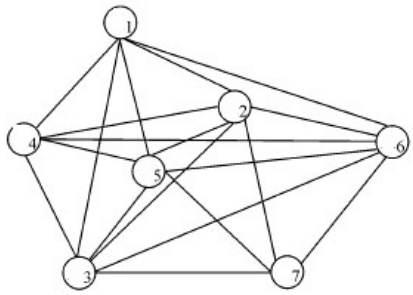

Fig. 2 Schematic diagram of network erection

As shown in Figure 2, the assumption that the seven schools as a vertex, according to the degree of dependence on each school's network resources to establish the network needs of the network diagram, and in accordance with the degree of dependence between the delineation of the distance between schools. The expression of the hypothetical formula (2) is as follows:

$$
\begin{aligned}
&Q=\{D,R\}\\
&D=\{1,2,3,4,5,6,7\}\\
&R=\{(1,2),(1,3),(1,4),(1,5),(1,6),(1,7),(2,3),(2,4),(2,5),(2,6),\\
&(2,7),(3,4),(3,5),(3,6),(3,7),(4,5),(4,6),(4,7),(5,6),(5,7),(6,7)\}
\end{aligned}
\tag{2}
$$

To build socialist core values education network as the main network, first of all should understand each school for socialist core value outlook education of dependence, and then establish a school network set up the relationship between dependence, which school to socialist core value of value view education dependence can be Table 1 to represent.

Table 1 the degree of dependence on the education of the socialist core values between schools

	1	2	3	4	…
1	medium	medium	big	small	…
2		big	medium	medium	…
3			small	small	…
4				big	…

Get school for socialist core value view education network dependence, according to the different degree of dependence can determine different network installation cost, which set up a school of socialist core value concept of the expenses required for the main body of the network as shown in Table 2.

Table 2 network cost

	1	2	3	4	…
1	300	300	400	200	…
2		400	300	300	…
3			200	200	…
4				400	…

The vertex 1 and 2 weights can be denoted as V (1,2), and the matrix of the graph 2 can be expressed as the formula (3):

$$Q=\{K,D,R\} \tag{3}$$

Research on the Internet erection of the function of the socialist core values in the higher vocational colleges and Universities

The first section of the paper on the socialist core values of the education function of the Internet to set up a model, according to the modeling of this section will be tested on the feasibility of the network. This section mainly uses the programming algorithm to evaluate the stability of the network set up in the, and by programming software of C language to design the software of the algorithm run, check the network transmit signals in the continuous iteration process stability and network vulnerability, algorithm of the main based on the Kruskal algorithm ideas, processes, as shown in Figure 3.

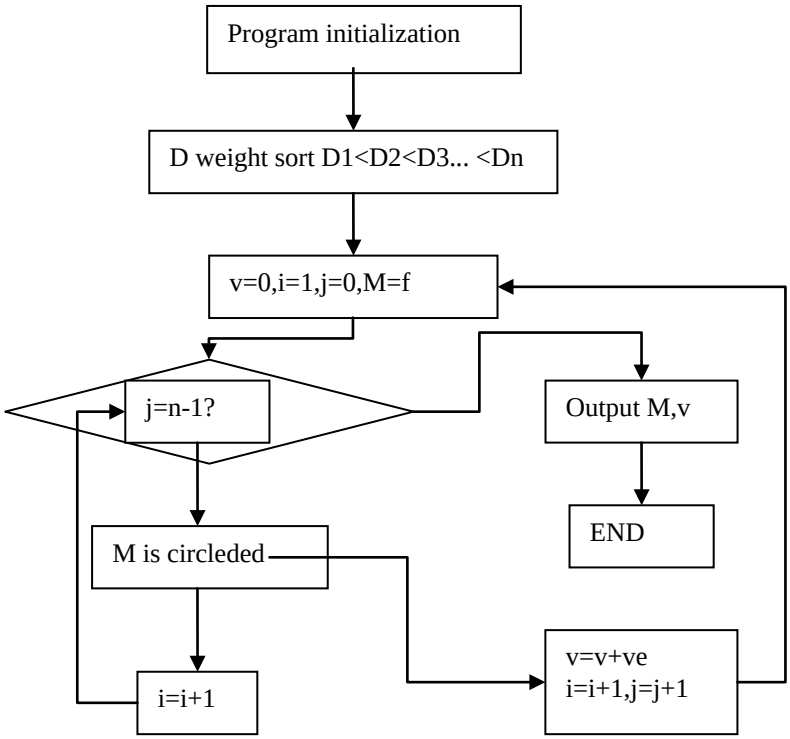

Fig. 3 The flow chart of calculation

Shown in Figure 3, weighted after calculation $Q=\{K,D,R\}$,in which,x =| D |,y=| R |。

N1 to D in the weight sort, set $v1 \le v2 \le ... \le vx, vi = v(fi)$

N2 initialization: v=0,i=1,j=0,M=f

N3 if J = n-1 is replaced by N6, otherwise it is replaced by N4.

N4 if the ring $M \cup \{fe\}$ is replaced by the S4 e=e+1, or else was replaced by N5.

N5 if there is a circle in $M = M \cup \{fe\}, v = v + ve, j = j+1, e = e+1$, then it is replaced by S3.

N6 output M and v, end.

Among them, M is the smallest tree, and V is the right of M.

Through the programming step of Figure 3, this paper uses the C language to calculate the network iterative transmission and transmission error curve which can be obtained as shown in Figure 4.

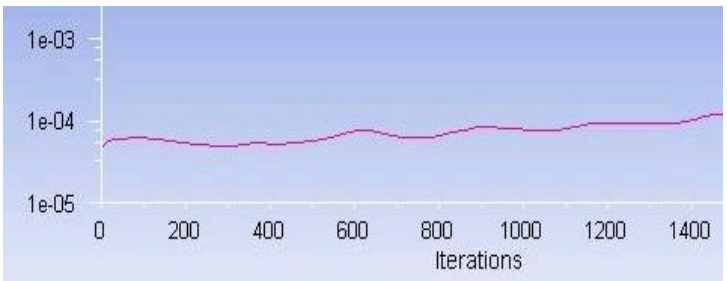

Fig. 4 network iterative transmission and transmission error curve

In Figure 4, in which the cross coordinates represent the number of times of transmission, the vertical coordinate indicates the error of the iterative transmission. Can be seen from the chart during the operation of the network, iterative operation is relatively stable, iterative transmission 1400 step, iterative transfer calculation error remains stable, which after 800 iterative step. The value has increased slowly, the maximum at about 0.0001 is validated to be calculated by. By calculating the minimum spanning tree of the network is obtained as shown in Figure 5.

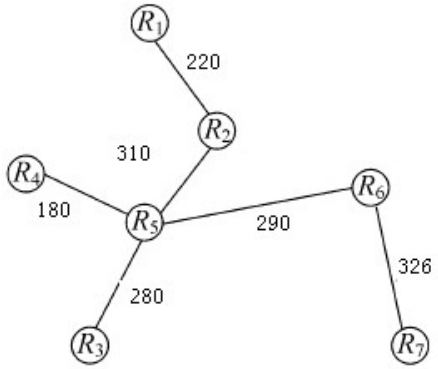

Fig. 5 The sketch diagram of network spanning tree

By shown in Figure 5, seven school propaganda for the main body of the network set up minimum spanning tree, which each transmission line are marked with the weight, total weight and reached in 1606, propaganda for the main body of the network erection work provides a reliable theoretical basis.

Conclusion

This paper based on computer and Internet technology, on higher vocational college socialist core value view of network education mode of Internet to set up a research and analysis, and combining the fuzzy minimum production tree theory and C language software on the network set up was verified, and finally found the network transmission iterative process is relatively stable, which after 800 iterative step. The value has increased slowly, the maximum at about 0.0001. Seven schools to promote public opinion as the main network to set up a minimum spanning tree, the sum of the weights of 1606.

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