

# Dynamic Fusion of Social Network Simulation Algorithms in College Education System

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**Abstract:** According to the user's social relationship, the joint distribution model of time and location of social network user nodes is constructed, and the cross-adaptive learning method is used to mine social network user preference information and detect related features. and its deep influence on the survival and development of people and the construction of social relations in the Internet age; based on the correlative theory of communitarianism. This paper proposes an innovation system for ideological and political education in colleges and universities from the perspective of big data, and further adopts the method of structured system analysis. From the perspective of big data, the network education system of colleges and universities has carried out in-depth research on layer-by-layer decomposition.

**Keywords:** Dynamic Fusion, Social Network Simulation Algorithms, College Education System

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## 1. INTRODUCTION

With the development of network information technology, people's space-time distance in cyberspace is shrinking [1]. People can make friends, chat and share information through various social networks. In the networking design and operation management of social networks [2]. Research topics, the key is to grasp the hot spots and focus on the frontier. "Hot frontiers are key issues in the development of ideological and political education theory and practice [3], focusing on the discussion of the theoretical difficulties of the discipline and the exploration of emerging things, which contain many issues worthy of exploration and discussion [4].

At present, the research of social network in China is still in its infancy, and more is to analyze and study its market value from the perspective of network communication and marketing [5], use social network in education, especially in college students to use social network to carry out ideology and politics There is relatively little theoretical research and practice in education [6]. Some scholars also believe that it is necessary to explore the use of mobile community concepts or network community thinking to promote ideological and political work, and to conduct in-depth research and use of Internet mobile community [7] rules to realize the education method from the traditional top-down "object-shaping" to an equal and interactive one. The transformation of "subject participation" [8].

There are many types of new media, mainly including information websites, search engines, online communities, etc.; new entertainment media such as online games [9], digital video, and webcasting; new social media such as QQ, Weibo, and WeChat; new life such as online shopping and electronic payment Service media [10]. In 2006, Germany began to make all official German information databases on toxic and hazardous substances and German climate change forecast maps freely available to the public. In addition to the above major countries, South Korea, Australia [11], Singapore, India, etc. have all implemented their own national big data development strategies and carried out certain big data actions. The focus of this paper is to clearly clarify the frame structure and constituent elements [12] of the network ideological and political education platform in colleges and universities, accurately judge the development status of the network ideological and political education platform [13] in

colleges and universities, and propose strategies for optimizing the network ideological and political education platform in view of the actual problems [14].

As Manuel Castell pointed out: "Whether society can master technology, especially the strategically decisive technology in each historical period [15], has shaped the fate of society to a considerable extent."11 When we make full use of Internet technology at times, ideological and political education is more of an opportunity than [16] a challenge. Paying attention to method practice is a tradition that ancient my country insisted on. In ancient my country, the method and practice of data were very rich [17]. First, the method and practice of data in ancient my country is first reflected in the operation of data, which mainly involves arithmetic, system and calculation of numbers [18]. At present, the definition of "virtual knowledge community" in academic circles is still incomplete, and usually it appears in the form of "academic forum" and "online learning community" [19].

Wang Dong (2010) believes that virtual knowledge communities are more professional and knowledgeable than ordinary virtual communities [20] in terms of communication objects and content. Combined with the group intelligence analysis of social network, the adaptive optimization control method is used to realize the intelligent recommendation design of social network [21]. At present, the typical algorithm mainly includes the fuzzy grid recommendation method. In human Internet practice, with the Internet practice activities with the increasing integration of life, with the increasing popularity of the Internet knowledge system, the Internet spirit of "openness, equality [22], cooperation, speed, and sharing" has become more and more popular, subtly adjusting and changing people's thinking in the Internet age. The interaction of social networks [23], Openness and quickness are affecting the formation of new values of college students. The social network breaks the class consciousness of the traditional network, and helps college students to establish an equal and free communication platform through equal interaction and communication [24]. People in cyberspace also want to fulfill higher-level needs such as love and belonging, respect and self-actualization. The "virtuality" of the network virtual society corresponds to the "reality" [25] of the human real society, and it mainly points to the difference between the cyberspace constructed by computers and the

Internet compared with the tangible and visible physical environment of people's daily life. Visibility and the absence of the human body [26].

## 2. THE PROPOSED METHODOLOGY

### 2.1 The Social Network Simulation

#### Algorithms

To explore the process of my country's historical development, it has gone through stages such as body-speaking communication - symbolism - handwriting communication. With the invention and creation of printing technology, printing communication greatly improved the communication efficiency of ancient people. In the traditional Chinese concept, the core work of ideological and political educators in colleges and universities is teaching. Coupled with the long-term influence of past empiricism, the educational concept of "emphasizing management and neglecting service; emphasizing education and neglecting self-education" has emerged. Concept still occupies an important place in the current ideological and political education in colleges and universities. Cognitive level is one of the subjective factors that affect the formation of people's thoughts, that is, people's ability to obtain information, judge and evaluate information and apply information.

Today, with the popularization and application of computer network technology, the learning methods, educational methods and educational channels of the educated have changed. Rapid iteration is a prominent feature of Internet technology development. The Web is the most important information application technology platform on the Internet, and the technology upgrade has gone through 1.0-2.0-3.0 three stages. Web1.0 is a digital, multi-media composite hypertext information medium, which is shared and interactive. This statement vividly compares a large number of observation methods to be a correct and effective method to explore the regularity of social phenomena.

Francis Galton once measured and calculated ability and virtue, and proposed the correlation and regression of the two variables for the first time. The value orientation and value pursuit of ideological and political education. The new environment and new characteristics of the Internet era require that the value concept of network ideological and political education in colleges and universities should pay more attention to the main body of students in adhering to the leadership of teachers. With powerful functions of information release and transmission, social networks meet the needs of ideological and political education and have unique advantages. You can easily reprint or publish all kinds of information ranging from national policies to people's lives without needing a long discussion. As the results of this questionnaire survey show, young college students currently studying at school have a high degree of concern for the online community.

### 2.2 The Dynamic Integration of Higher Education System

The main driving factor of the degree of dependence and dependence is that the online community can meet its diverse needs to a large extent, such as acquiring massive and diverse information, expanding online communication, especially group communication.

The impact of the new media era on ideological and political education in colleges and universities is also reflected in the teaching methods. The traditional indoctrination education

model has become difficult to do in the new media era. The concepts and cognitions of college students are no longer limited to the knowledge content in books and the complicated media. In this open and shared educational environment shaped by big data, the education of ideological and political education in colleges and universities can easily lead to students' dissatisfaction. Disgust, which forces colleges and universities to transform other education-oriented education into education that combines other education and self-education. Colleges and universities should not only allow students to obtain knowledge in the university. We only need to focus on analyzing the elements of the network ideological and political education platform. Hierarchical structure, and then go deep into the functions of different elements presented by the interaction of various elements of the online ideological and political education platform, reveal and grasp the integrity of the online ideological and political education platform, and optimize and maximize the overall effect of the online ideological and political education platform. change.

The former is a broad understanding of network ideological and political education, and the question raised is how to develop traditional ideological and political education from concept to content, means, mechanism and organization in the networked social environment, which is the construction of a comprehensive system of ideological and political education. question. The latter is a narrow understanding of network ideological and political education. An intelligent group algorithm is established in conjunction with social activities to carry out the integrated recommendation design of social networks, and the recommendation information is projected into the high-dimensional phase space F for feature reorganization and information fusion processing to improve user information. The ability of automatic matching and identification of network information. Social networks are deeply loved by college students for their openness, convenience and interactivity, and have penetrated into all aspects of college life.

### 2.3 The Dynamic Integration of College Education System Based on Social Network Simulation Algorithm

By building a communication platform through social networks, educators and college students have shortened the distance, and in the process of ideological and political education, the interaction between teachers and students has been improved. What's more, it will also bring a sense of information indifference and information silence, that is, choosing to refuse to click and read "unread" information in the group. For some information producers, in order to be able to "stand out" from the massive information, avoid missing valuable information. The difference between big data and previous data processing technologies is that the overall sample replaces the partial sample. If ideological and political educators want to gain insight into a student's ideological and behavioral tendencies, they must comprehensively collect some data related to college students as much as possible. In the Internet environment, the enrichment of information resources, the diversification of information dissemination channels, and the speed of information dissemination have greatly reduced the difficulty of obtaining information for college students. Schools and teachers are no longer the only way for them to obtain information. College students can Obtain a large amount of information from many network channels. First, we must strengthen administrative leadership and work force building.

Since Yiban has been elevated to a national strategy, a national-level ideological and political work leading group should be established to plan and guide online ideological and political work, including coordinating and promoting the national co-construction of Yiban, formulating annual work plans, formulating co-construction standards and assessment mechanisms, etc. In the era of big data permeating every industry and business field today, all fields attach great importance to tapping the potential of data. This has led to a new development of data-based educational decision-making, and has gradually demonstrated its development potential and advantages in the upsurge of educational informatization. In this way, using linked data as the basis of the recommendation system can fully mine user needs, fully mine the information contained in knowledge, and fully express user needs, solve the problem of cold start and matrix sparsity, and enhance the knowledge recommendation ability of the recommendation system.

### 3. CONCLUSIONS

Combined with the group intelligence analysis of social network, the adaptive optimization control method is adopted to realize the intelligent recommendation design of social network. This paper proposes a cross-layer fusion intelligent recommendation algorithm for social networks based on fuzzy spatiotemporal information perception. The network ideological and political education platform in colleges and universities is an important position for the network ideological and political education in colleges and universities, and its quality directly affects the effect of the network ideological and political education in colleges and universities. This is the basis for providing personalized knowledge services for virtual knowledge community users. The evaluation system of personalized knowledge recommendation effect in virtual knowledge community is constructed.

### 4. REFERENCES

- [1] Li Lifeng. Research on "sneak-shift" ideological and political education strategies in colleges and universities based on social network platforms [J]. Shaanxi Education: Higher Education Edition, 2018(3):3.
- [2] Ke Jianbo, Lu Xinghua. Social network fusion intelligent recommendation algorithm based on fuzzy perception [J]. Information Technology, 2020, 44(2):5.
- [3] Zheng Yunjun. Research on Social Network Recommendation Algorithm Integrating Multi-source Information [D]. Chongqing University of Posts and Telecommunications, 2020.
- [4] Ning Xiansheng. A Systematic Analysis of the Integrated Development of Ideological and Political Education in Colleges and Universities [J]. Research on Ideological and Political Education, 2021, 37(3):6.
- [5] Bai Xiaolong. The integration strategy of college physical education curriculum and ideological and political education from the perspective of "course ideology and politics" [J]. 2021.
- [6] Zhang Yao, Zhang Tianxing, Jiang Sining. Research on the Design of Course Teaching Implementation Plan Based on Social Network Platform [J]. Electronic Journal of New Education Era (Teacher Edition), 2019, 000(037):217-219.
- [7] Zhao Hongren. The integration and application of cloud computing and big data in college education informatization [J]. Digital World, 2018, 000(010):179-180.
- [8] Xu Zhaodi, Hu Jun. Dynamic Social Network Link Prediction Based on Incremental Learning [J]. Digital Design, 2019, 8(9):5.
- [9] Zhang Yu. Research and thinking on creating a platform for integration of production and education and curriculum reform based on applied undergraduate education in colleges and universities [J]. Scientific Consulting, 2020.
- [10] Li Ke, Chen Long, Luo Penghui, et al. An analysis of specialized creative and integrated education in colleges and universities under the background of innovation and entrepreneurship [J]. Modern Education Forum, 2020, 3(10):123-124.
- [11] Weng Zhenyu, Zhang Xin. Research on University Design Maker Education System Based on Cross-border Integration [J]. New Art, 2019(11).
- [12] Zhang Lulu. Theoretical and practical research on the integration of aesthetic education and ideological and political education in colleges and universities under the background of Internet + [J]. China Educational Technology and Equipment, 2021(6):3.
- [13] Zhang Xi. Integrating modern network technology to build an ideological and political education platform—Comment on "Research on the Construction and Application of Network Ideological and Political Education Platform in Colleges and Universities" [J]. 2021.
- [14] Lv Junling. Research on the ideological and political education method of party building integration in colleges and universities under the "Internet +" environment [J]. Child Development Research, 2019(4):6.
- [15] Song Yueqiang. Using the Internet to Promote the Integrated Development of College Student Management and Ideological and Political Education [J]. 2019.
- [16] Zhuang Haiyan. Simulation of Multiple Social Network Authoritative User Identity Discovery Algorithm [J]. Computer Simulation, 2019, 36(11):5.
- [17] He Daobing, Liu Xiaoyang, Ding Nan. A new online social network community discovery algorithm [J]. Computer Simulation, 2021, 38(9):7.
- [18] Wang Zhanhong, Li Pengcheng. Parallel verification and simulation of heterogeneous social network attributes based on string space [J]. Computer Simulation, 2020, 37(8):5.
- [19] Zhou Fei, Gao Maoting. A social network influence maximization algorithm based on combined influence probability [J]. Computer Engineering, 2018, 44(5):7.
- [20] Feng Mengyuan. Research on Personalized Recommendation Algorithm Based on Social Network Trust [D]. Harbin Engineering University, 2018.
- [21] Chen Yongjian, Zhou Yan, Liu Chaoying. A large-scale social network community discovery algorithm based on genetic algorithm [J]. Computer Engineering and Design, 2018, 39(8):8.
- [22] Chen Yanliang. Research on wireless resource allocation algorithm in future mobile social networks [D]. Beijing University of Chemical Technology, 2018.
- [23] Chen Yanliang, Zhang Fengyuan. Research on Wireless Resource Allocation Algorithm in Mobile Social Networks [J]. Journal of Chongqing University of Posts and Telecommunications: Natural Science Edition, 2018, 30(1):6.

[24] Yu Zhen, Zhu Jie, Shen Guicheng. A social network-based e-commerce trust model and simulation [J]. Journal of System Simulation, 2018, 30(8):9.

[25] He Jindong, Yang Bo. Construction of College Teaching Evaluation System Integrating Personnel System Reform [J]. Journal of Baoshan University, 2018, 37(3):3.