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A Review of the Current Research on Vocational Education in China

Jiawei Zhuge, Boyu Jin, Benyan Ren

Zhejiang University of Finance and Economics Dongfang College, Haining 314408, China DOI: https://doi.org/10.55248/gengpi.5.0624.1512

ABSTRACT:

As China's economy entered a transition period and the industrial structure was constantly adjusting, the contradiction between the demand for talent and the supply side became increasingly prominent. Vocational education industry-education integration school-enterprise cooperation is the fundamental way to solve this problem. The school-enterprise cooperation talent training model of vocational education has had a history of decades in China. In recent years, with the strong promotion of the government, an increasing number of enterprises and vocational colleges have participated and are constantly exploring the characteristics of vocational education school enterprises. A new model of cooperation. This paper mainly carries out research from four aspects: the school-enterprise cooperation system of vocational education, the integration of industry and education in vocational education, the school-enterprise cooperation model of vocational education, and the effectiveness of school-enterprise cooperation in vocational education. It is hoped that this study can provide a reference for the development of vocational education

Keywords: vocational education; school-enterprise cooperation; integration of industry and education; literature review

1. Vocational education school-enterprise cooperation system

The basic conceptual definition of the research question is the premise of carrying out research. Judging from the data search results on the school-enterprise cooperation system in vocational education, there are few studies in this area. The main viewpoints are as follows after collation of the search data

The school-enterprise cooperation system of vocational education has its own functional and value attributes and is the product of the development and evolution of human society. In 2015, Long Devi conducted relevant research on the nature of vocational education and proposed an institutional framework for school-enterprise cooperation from the perspectives of the government, industry, and institutions of higher learning [1]. Regarding how to establish the institutional goals of school-enterprise cooperation in vocational education, many scholars have conducted research from the perspective of practical needs in hopes of solving the problems of unsound standards for school-enterprise cooperation in vocational education, the poor quality of education, and the problems of training programs at the institutional level. The disconnect between vocational education and enterprise needs provides an impetus for school-enterprise cooperation in vocational education [2-5]. Zhang et al. conducted research on the value of the school-enterprise cooperation system in vocational education. He believed that the school-enterprise cooperation system had at least three values: it was helpful for improving the operational efficiency of relevant enterprises and for the development of school-enterprise cooperation. The resources of universities and enterprises are better used to promote the sound and healthy development of industries and enterprises[6-10]. Zhang et al. noted that in the process of school-enterprise cooperation, there is a game between the school and the enterprise, which will cause conflicts between the two parties, make the cooperation policy invalid, and thus deviate from the established cooperation and development goals of the two parties. Therefore, institutional innovation must be used to solve this problem, conflicts [11-14]. Based on an investigation of enterprises in Zhejjang Province, Ran found that those who actively participated in school cooperation were involved for two main reasons: economic motivation and social and moral motivation. She also found that enterprises were unwilling to participate in school cooperation. The main reason for enterprise cooperation is that the interests of the enterprise cannot be fundamentally guaranteed due to the absence of a school-enterprise cooperation system in vocational education [15].

In terms of institutional changes in school-enterprise cooperation, most researchers consider the major policy documents promulgated in the vocational education field to be a sign of institutional change. Han Xu et al. believe that the changes in the school-enterprise cooperation system in vocational education can be studied from the three stages of exploration, formation and development. Each stage has a policy bias [16-18], while Hao Wang studies it from the vertical perspective of time. To divide the changes in the school-enterprise cooperation system in vocational education, starting with the founding of New China, the first time division was the reform and opening up, and the second time division was around the 21st century, that is, the founding of New China-the reform and opening-up-21. From the beginning of the century to the present, institutional change was also divided into three time periods [19]. In fact, the institutional changes in school-enterprise cooperation, and other forces can promote the further development of school-enterprise cooperation. This puts institutional changes in school-enterprise cooperation in vocational education at a more complicated stage, environment [20-27].

Vocational education Problems in school-enterprise cooperation It gradually became evident that, from the perspective of laws and regulations, the school-enterprise cooperation system was not standardized, the various laws could not be coordinated and unified, and there were even conflicts. This made it difficult to implement the school-enterprise cooperation system^[28-32]. Some scholars have directly pointed out that there is a great deal of ambiguity in the legal concept of school-enterprise cooperation in vocational education, the absence of rights and interest functions, and the lack of standardization; therefore, the laws and regulations on school-enterprise cooperation in vocational education need to be further improved ^[33-35]. Fan believes that the existing school-enterprise cooperation in vocational education lacks protection for the legitimate rights and interests of students and fails to define the identity of students as interns. In addition, the contracts signed in internship agreements are extremely nonstandardized and fail to reflect the rights and interests of interns ^[36]. The problems in the institutional implementation mechanism are mainly reflected in two aspects. The first is the imperfect management framework of institutional mechanisms ^[37-38], and the other is that there are problems with both the evaluation mechanism and the supervision mechanism, which hinder the school-enterprise cooperation system. function ^[39].

Scholars have different views on the causes of problems in the school-enterprise cooperation system in vocational education. Duan Zhiping believes that the main reasons are insufficient market fit, the absence of market players, and the absence of elements and mechanisms [40]. Another scholar analyzed corporate social responsibility and noted that the main reasons for corporate evasion of social responsibility are unequal empowerment, the acquisition of benefits, and a lack of moral constraints [41-42]. Table 1 summarizes the problems in the abovementioned school-enterprise cooperation.

Table 1 School-enterprise cooperation problems

Problem embodiment	Literature source
The laws cannot be harmonized	[30]、[31]、[32]
There is a great deal of ambiguity in the legal concept	[33]、[34]、[35]
The agreement failed to reflect the rights and interests of the interns	[36]
Imperfect institutional and mechanism management framework	[37]、[38]
There are problems in both the evaluation mechanism and the supervision mechanism.	[39]
Inadequate market players and absence of elements and mechanisms	[40]
Unequal access to empowerment and benefits	[41]、[42]

2. The integration of industry and education in vocational education research

The integration of production and education in vocational education involves the cross-border integration of education and industry. From a macroeconomic point of view, it studies the process of mutual influence and regulation between education and the economy. The main research object of educational economics is the impact of education on industry. contribution. The idea of integrating industry and education has been around for a long time. The upstream region mainly refers to the function and economic value of education, while the downstream region mainly includes the combination of government and industry and the coordinated development of education and industry.

The connotation of the integration of industry and education has not been uniformly recognized. Scholars such as Yang Shanjiang believe that the integration of industry and education involves the education system and the industrial system, and only when the two form a unified and organic whole can the function of industry-education integration be fully realized on the basis of synergy. They use their own superior resources, with collaborative education as the core, win–win cooperation as the ultimate goal, and excellent cooperation culture as the carrier to promote the two to achieve the optimal combination and thus a high degree of integration [43-46]. In their study, Cao et al. believe that the integration of industry and education is equivalent to school-enterprise cooperation. Cao et al. believe that the two are not the same. School-enterprise cooperation is a one-way process. In this process, the school is the main body of development and is the initiative of the school to cultivate talent. At this time, the enterprise is likely to be a passive party, but the integration of industry and education reflects the interaction between the two parties. This is a two-way process, and both parties are motivated to cooperate [47-49]. Qin Bin noted that the integration of production and education is a process of in-depth docking between schools and industrial enterprises, a reflection of school-enterprise interaction, and the integration of technology R&D, production labor, and social services [50-51].

There have been relevant studies on the characteristics, requirements, and significance of industry-education integration. Luo et al. noted that diversified, demand-oriented, dynamic, mutually beneficial, and multifunctional subjects are all characteristics of industry-education integration integration [52-55]. To achieve the goal of industry-education integration and play its function, Wang et al. believe that industry-education integration should meet some basic requirements, such as major setting and industry needs, seamless integration of teaching theory and production practice, and curriculum content setting should adapt to professional standards [56-59]. In addition, the integration of industry and education should emphasize the docking between industries and professions, the docking of teaching situations and working environments, and the docking between enterprises and schools. Only when the effective links of the various subjects and links can the goal of industry-education integration be achieved [60-61]. The integration of industry and education is a win–win school-enterprise cooperation model. The realization of benign economic and social development through cross-border integration can not only cultivate excellent professional talent for schools but also reduce the human resource training costs of enterprises [62-63].

3. School-enterprise cooperation model of vocational education Research

Current status of school-enterprise cooperation in vocational education. A high-quality school-enterprise cooperative model can cultivate excellent corporate talent. Current school-enterprise cooperation models mainly include the introduction of enterprises into schools, short-term social practices, and enterprise lecture halls. These types of school-enterprise cooperation models have played a role in different colleges and universities. With the advent of the information age, how to apply "Internet +" thinking to school-enterprise cooperation is an issue that many colleges and universities need to consider [64-65]. In the context of the integration of industry and education, the school-enterprise cooperation model is becoming increasingly important. Many colleges and universities have adopted the model of constructing internship training bases. This model can provide at least two benefits. First, it allows students to work in the process of participating in practical training, and they can understand their actual working status, which helps to improve their practical ability. Second, it facilitates the selection of excellent interns by the enterprise, reduces the cost of selecting and training manpower for the enterprise, and provides an introduction for future enterprises. The talents are ready [66-67]. The order cooperative training model is also an important school-enterprise cooperation model. The main idea of this model is that the enterprise selects some students in advance for contract training, then establishes order training classes and develops courses that meet the actual needs of the enterprise. The order ends when the student has completed all the courses, but this model includes many unilateral breaches of the contract [68-70].

Factors influencing the school-enterprise cooperation model of vocational education Scholars have conducted more studies on the factors affecting schoolenterprise cooperation in vocational education. These studies were mainly conducted from three perspectives. The first is the influencing factors of the institutions. The resources possessed by institutions will largely affect the profitability of cooperative enterprises because institutions with more abundant resources are able to produce higher-quality talent. Therefore, a school's teaching philosophy, curriculum, teacher facility conditions, and practical training conditions all have a great impact on the institution's search for cooperative enterprises [71-73]. Wang Bin and Zhang Yingjie believe that an institution's training programs and enterprises cannot meet these demands. In addition, the quality of the teaching team in some colleges and universities is not up to standard. There is a serious shortage of "dual-qualified" teachers and a failure to develop their own characteristic courses. These problems have reduced the potential for cooperation between enterprises and colleges to a certain extent. Positivity [74]. The scale and nature of the enterprise cooperate with the universities. The scale of the cooperative enterprise is positively correlated with the enthusiasm for cooperation. The larger the enterprise is, the more willing it is to cooperate with institutions to train talent [75]. The participation of state-owned enterprises or enterprises with innovation culture universities is more likely to be cooperative [76], and technology-intensive enterprises are more willing to carry out cooperative research with institutions and attach great importance to institutional cooperation [77-78]. The third influencing factor is the external environment. Zhang suggested that adjustments to the management mechanism of colleges and universities, the distribution structure of the labor market and the industrial structure will affect the construction of the school-enterprise cooperation mechanism [79]. The economic environment and the technological level of the entire industry will affect the development of school-enterprise cooperation [80]. Through her study of large enterprises in Beijing, Suju Duan found that the most important factor for the lack of motivation of enterprises to participate in university cooperation is the absence of reasonable and effective guidance. mechanism [81]. The factors influencing the school-enterprise cooperation model of vocational education are summarized in Table 2.

Table 2 Factors influencing the school-enterprise cooperation model of vocational education

Influencing factors reflect the content	Literature source
Teaching philosophy, curriculum, teacher facilities, training conditions, etc.	[71]、[72]、[73]
The quality of the teaching team is not satisfactory	[74]
The scale and nature of the cooperation enterprise	[75]
Does the enterprise have an innovation culture?	[76]
Technology-intensive enterprises are more willing	[77]、[78]
Institutional management mechanism and labor market distribution structure	[79]
Government laws and regulations, national economic environment	[80]
Reasonable and effective guidance mechanism	[81]

Analysis on the difficulty of school-enterprise cooperation in vocational education. The enthusiasm of enterprises to participate in cooperation has always been low because the current school-enterprise cooperation model is still based on colleges and universities as the main body, enterprises participate passively in many cases because enterprises are pursuing the maximization of benefits, and the benefits of cooperation with schools require some time for the situation to be reflected. Many small and medium-sized enterprises cannot accept this situation [82-84]; the depth of school-enterprise cooperation is insufficient. In the process of cooperation, what students are engaged in in enterprises is very low-level technical support, basically based on the focus being mainly on doing chores, and enterprises have not invested too much in this area, which to a large extent constrains the depth of school-enterprise cooperation [85-86]. The level of teaching staff in colleges and universities is insufficient, and the foundation of vocational education is to cultivate talent with strong knowledge and practical ability; therefore, teachers who impart knowledge must also be people with rich theoretical and practical abilities.

However, many schools currently lack "dual-qualified" teachers, and although some schools allowed teachers to participate in the training, the effect was very small. It was basically on-the-job training and could not improve my technical skills [87-88].

4. Effectiveness of school-enterprise cooperation in vocational education research

A search of articles on the effectiveness of school-enterprise cooperation in vocational education through the China National Knowledge Infrastructure (CNKI) revealed that relatively few scholars have studied this type of issue, and the majority of studies have focused on school-enterprise cooperation mechanisms, models, and countermeasures. Liang et al. conducted an empirical study on the effectiveness of school-enterprise cooperation from the perspective of satisfaction. The results showed that six aspects had a great impact on the degree of satisfaction with school-enterprise cooperation, such as overall curriculum planning, internship performance assessment methods, and the internship system. In addition, Weiqing Hu constructed a performance model of school-enterprise cooperation in vocational education and evaluated it from the three aspects of resources, process, and effect with the help of a fuzzy comprehensive evaluation method ^[93]. Jianxin Wu et al. constructed a school-enterprise cooperation model by referring to foreign research results. Using the four-dimensional conceptual model of cooperation, the effectiveness of school-enterprise cooperation was studied from the perspectives of depth and breadth. Yu et al. used the questionnaire survey method to study the satisfaction and enthusiasm of enterprises in participating in school-enterprise cooperation, and the results showed that many enterprises are willing to accept higher vocational college students as interns and are highly enthusiastic about participating in school-enterprise cooperation^[88].

References

- [1] Long Deyi. Role positioning and responsibilities of the talent training model of the integration of industry and education and the school-enterprise cooperation—the construction of the basic system and operating mechanism of school-enterprise cooperation that "the industry sets standards, the colleges are responsible for the training, and the government implements the supervision" [J] . Joint Journal of Tianjin Vocational Colleges, 2015(6):3-6.
- [2] Guo, Suhua. The Dilemma of School-Enterprise Cooperation From the Perspective of the Characteristics of Enterprise Education Resources [J]. Educational Development Research, 2013(5):50-54.
- [3] Wang, Jianyun, Wang, Qihong. The Difficulty and Breakthrough of the Collaboration between the Government, the School and the Enterprise in Higher Vocational Education [J]. China Higher Education Studies, 2014(1):94-97.
- [4] Yi Suhong, Deng Dongdong, Ouyang He, et al. Empirical study on the cost of on-the-job internship for vocational college students——Taking the sample survey of on-job internship of the class of 2014 graduates as an example [J]. China Vocational and Technical Education, 2015(9):44-51.
- [5] HU Zhenfen,YANG Guojun. Research on institutional guarantee system of deep co-operation between schools and enterprises in vocational colleges[J]. Business Economy,2015(3):164-166.
- [6] Zhang Y. Analysis of the value and function of school-enterprise co-operation system in higher vocational colleges and universities[J]. Education Teaching Forum, 2015(7):30-31.
- [7] Zhou Fenghua. Establishing an industry-teaching integration type enterprise certification system Promoting the formation of a community of destiny between vocational colleges and industrial enterprises [J]. China Vocational and Technical Education, 2019(7):86-92.
- [8] Zhao Mengcheng. Deepening Industry-Education Integration Calls for Conceptual and Institutional Innovation[N]. China Education News, 2018-03-06.
- [9] Pan Haisheng, Song Yafeng, Wang Shibin. Vocational education industry-teaching integration policy framework construction and dilemma dissolution [J]. Journal of Jishou University (Social Science Edition), 2019(4): 69-76.
- [10] Luo Mingyu. Research on the Realisation Mechanism of Industry-Education Integration in Higher Vocational Colleges and Universities [D]. Hangzhou: Zhejiang University of Technology, 2017: 29.
- [11] Zhang Xinxin, Zhao Limin, Ouyang He. The innovation path of long-term mechanism of school-enterprise co-operation in vocational education in China[J]. Vocational and Technical Education, 2015(34):10-15.
- [12] Xu Guoqing. The fundamental transformation of vocational education talent cultivation mode in the era of intelligentisation[J]. Educational Research, 2016, (03):74-80.
- [13] Zhang Laiyou. Research on practice-oriented vocational education curriculum[J]. Science and education literature, 2017(8):156+199.
- [14] HAO Tiancong, SHI Weiping. Employment-orientated or career-orientated? --Cracking the dilemma of vocational education development[J]. Education Science, 2017(2):59-65.
- [15] Ran Yunfang. Analysis of the current situation and countermeasures of per capita funding for secondary vocational education—an empirical study based on 2000-2010 data[J]. Education Development Research, 2013(1):66-72.
- [16] XU Han, ZHOU Lerui, SUN Shanshan. Review and Reflection on Vocational Education School-Enterprise Co-operation Policies in China Since Reform and Opening Up[J]. Vocational Education Forum, 2016(31):13-18.

- [17] Liang Chengai. A review of institutional change theory on the transmutation of human resources development function of vocational education in the period of social transition[J]. Vocational Education Forum, 2013(34):68-72.
- [18] Gao Xihe. Institutional change and internal development of vocational education[J]. Vocational Education Newsletter, 2012(20):1-3.
- [19] Wang Hao. Comparative study of school-enterprise co-operation system in vocational education at home and abroad[J]. Continuing Education Research, 2014(4):136-138.
- [20] WANG Song. Research on school-enterprise co-operation mode in vocational education in China based on institutional change[J]. Education and career 2013(8):13-15.
- [21] YANG Junyi. Introduction to institutional philosophy: institutional change and social development [M]. 2005.
- [22] JIN Xiaolong. Research on the status quo and laws and regulations of school-enterprise co-operation in vocational education in China [D]. Xi'an: Northwestern University, 2014:12-18.
- [23] Li Shaoyi. Research on the dilemma and countermeasures of "school-enterprise co-operation and engineering integration" in applied undergraduate colleges and universities [J]. Education and Teaching Forum, 2016(48):29-30.
- [24] Zhou Hongxing. Research on the Dilemma and Countermeasures of School-Enterprise Co-operation in Local Applied Undergraduate Colleges[J]. Science and Technology Outlook, 2017(20):291.
- [25] Zhang Jianchun, Legal System and Policy Suggestions for Deepening School-Enterprise Co-operation under the Government's Leadership [J] Higher Agricultural Education, 2015(8):20-24.
- [26] Li Z. Legal system dilemma and countermeasures in school-enterprise co-operation of higher vocational education[J]. Education and career, 2014(5):17-19.
- [27] He Zhen. Promoting the integration of production and education system innovation to establish a modern vocational education governance system [J]. China Vocational and Technical Education, 2014(21):138-142.
- [28] Fan Liwen. Research on the legal system of student internship in vocational education school-enterprise co-operation [D]. Tianjin: Tianjin University of Technology, 2014:19-24.
- [29] Cheng Lin. Research on the policy environment of school-enterprise co-operation based on enterprise perspective [J]. Vocational Education Forum, 2013(32):59-61.
- [30] WANG Tingting. Research on School-Enterprise Co-operation System and Operation Mechanism[J]. Contemporary Economy, 2015(11):128-130.
- [31] WU Ning, LI Mao. Research on Higher Vocational School-Enterprise Co-operation Policies and Their Performance Evaluation under the Perspective of Public Policy Analysis [J]. Education and Career, 2015(9):9-12.
- [32] Duan Zhiping, Wang Sheng, Ji Weidong. Policy researchers of school-enterprise co-operation in vocational education under market perspective[J]. China Vocational and Technical Education, 2015(6):65-69.
- [33] Nie W. Responsibility front:An effective way to promote school-enterprise co-operation a case study based on order cultivation[J]. Vocational Education Forum, 2015(22):6-10.
- [34] Wang Yinyin, Zhu Zhihai. Lack of corporate social responsibility in higher vocational school-enterprise co-operation[J]. Education and Career, 2014(35):32-33.
- [35] Yang Shanjiang. Integration of industry and education: The road to the development of modern vocational education under the deep transformation of industry[J]. Education and occupation, 2014(33):8-10.
- [36] Zeng Yikun. Thinking about the deep co-operation between schools and enterprises to promote the integration of production and education[J]. Journal of Huzhou Institute of Vocational Technology, 2018, 16(04):10-13+56.
- [37] Li Kejian, Hu Jie, Qiu Hengjia, et al. Deepening the integration of "industry and education" and promoting the high-quality development of higher vocational education--Taking Suzhou Agricultural Vocational and Technical College as an example[J]. Journal of Shazhou Vocational Engineering College, 2018, 21(04):26-29.
- [38] Ren Aizhen, Leng Xuefeng. Theory and practice of industrial docking of higher vocational majors under the threshold of industry-teaching integration[J]. Contemporary Vocational Education, 2018, 96(06):48-51.
- [39] Cao Dan. From "school-enterprise co-operation" to "integration of production and education"-the confusion and thinking of applied undergraduate colleges and universities in promoting the deep integration of production and education[J]. Tianzhong Journal, 2015(01):133-138.
- [40] Feng Wang, Lu Hongwei. Exploration of Hubei's Industry-Education Integration Based on Innovation Driving[J]. Chinese and foreign entrepreneurs, 2018, 622(32):206-207.

- [41] GUO Tong, GUAN Wenyi, ZHANG Fanjian. Industry-teaching integration, school-enterprise co-operation, promote the connotation development of higher vocational education[J]. Shandong Animal Husbandry and Veterinary Medicine, 2018, 039(005):56-57.
- [42] Qin Bin. Deep integration of industry and education is an important direction for the development of modern vocational education [N]. Guangxi Daily, 2014-08-05011.
- [43] Chen Nianyou, Zhou Changqing, Wu Zhuping. Connotation and realisation path of industry-education integration [J]. Science and Technology of Chinese Colleges and Universities, 2014(08):40-42.
- [44] Luo Ruzhen. Research on the mechanism of industry-teaching integration of higher vocational education under the background of market economy[J]. Education and occupation,2014(21):8-11.
- [45] Wang Chunmei. Research and practice of practical teaching mode under industry-teaching integration[J]. China Medical Education Technology, 2016, 30(5):516-519.
- [46] Guan Y. Research on the docking and practice of higher vocational CNC talent cultivation mode under the integration of industry and education[J]. Journal of Higher Education, 2017(17):189-190.
- [47] Xie ZP, Wang JM, Ying JM. Practical exploration of industry-teaching integration in vocational colleges--Taking Zhejiang Transportation Technician College as an example[J]. Vocational Education Research, 2018,174(6):39-43.
- [48] Wang Danzhong, Zhao Peihua. Exploration of collaborative parenting mechanism in higher vocational colleges under the threshold of industry-teaching integration[J]. China Higher Education, 2014,21:47-49.
- [49] Fan Qing, Liu Mengfei, Lin Ting, et al. Construction of "Classroom + Workshop" Industry-Teaching Integration Teaching System Based on Distance Education--Taking Jiangxi Engineering Vocational College CNC Technology Major as an Example[J]. Journal of Nantong Vocational University, 2018, 32(04):57-59+67.
- [50] Hou Guangxu. Construction of new practical training base in the context of industry-teaching integration[J]. Vocational Education Newsletter, 2018, 499(24):8-14.
- [51] Chen Nianyou, Zhou Changqing, Wu Zhuping. The connotation and realisation path of industry-education integration[J]. China University Science and Technology, 2014(8):40-42.
- [52] He Yaomin, Ding Jianshi, eds. Ten hot issues of vocational education [M]. Beijing: People's University of China Press, 2015:57.
- [53] He Xingyue et al. The paradigm of industry-teaching integration in modern higher vocational [M]. Hangzhou: Zhejiang University Press, 2015:47.
- [54] Liu Yourong, Xiang Gui'e, Wang Jiancheng. Research on industry-teaching integration model and its influencing factors in applied undergraduate colleges [J]. China Higher Education Research, 2015(05):64-68.
- [55] CHENG Zhishan. Research on Characteristic Schooling and Development Countermeasures of Jiangxi Higher Vocational Education [D]. Nanchang: Nanchang University, 2016.
- [56] Wang Yan. "Internet +" school-enterprise co-operation mode exploration [J]. Cooperative Economy and Technology, 2015(24):132-133.
- [57] WANG Jibin, PENG Dun. Internet + self-subversion, organisational reconstruction, management evolution and internet transformation of traditional enterprises [M]. Machinery Industry Press, 2015.
- [58] Wu Juan. The reform of school-enterprise co-operation mode of higher vocational colleges and universities under the background of industry-teaching integration [J]. Education Teaching Forum, 2018(16):241-242.
- [59] Zhang Jun, Liu Min. Discussion on the reform of higher vocational education running mechanism based on school-enterprise cooperation[J]. Education Theory and Practice, 2017(18):20-22.
- [60] Wang Lei, Li Shuangxi, Ren Lingling. Research on school-enterprise co-operation mode of "three-bit integration" applied undergraduate colleges[J]. Education Teaching Forum, 2017(21):33-34.
- [61] Liu Yingxia. Practice and exploration of the research on the development of teaching guidance programme in higher vocational colleges under the background of industry-teaching integration[J]. Education Teaching Forum, 2017(10):161-162.
- [62] Ye Feifan. Integration of industry and education: the goal and path of general undergraduate colleges and universities' transformation to application-oriented [J]. China Higher Education, 2017(11):49-50.
- [63] Cheng Peimou, Gu Jinfeng. Enterprise decision-making model of school-enterprise co-operation a theoretical analysis based on costs and benefits[J]. Exploration of Higher Education, 2012(05):119-125.
- [64] Xu Yunyan. Discussion on the influencing factors of e-commerce school-enterprise co-operation in secondary schools under the threshold of synergy theory[J]. E-commerce, 2017(4):93-94.

- [65] Liu Li. Research on school-enterprise co-operation ability of teachers in secondary schools [D]. Chongqing: Southwest University, 2018.
- [66] Wang B, Zhang YJ. Survey and analysis of enterprises' participation in vocational education school-enterprise co-operation interest demands[J]. Liaoning Journal of Higher Vocational Education, 2012(05):10-12.
- [67] Yuan Quan. Identification and analysis of key factors in school-enterprise co-operation in vocational education[J]. New Curriculum Research (Zhongdian Journal), 2017, 444(07):58-60.
- [68] LIN Shibin, XIE Xijin, CHEN Changcheng. Analysis of Influential Factors of Enterprises' Participation in School-Enterprise Co-operation Based on Logistic Regression Model[J]. China Vocational and Technical Education, 2016(30):61-65.
- [69] Wan Weiping, Shen Qiyun. Research on the Influencing Factors of the Formation of Long-term Mechanism of School-Enterprise Co-operation in Vocational Education--An Analytical Framework Based on Stakeholder Theory[J]. Mechanical Vocational Education, 2016(8):1-5.
- [70] Ran Yunfang. Cost-benefit analysis of enterprises' participation in running vocational education [D]. Shanghai: East China Normal University, 2016.
- [71] Zhang Huixia. Research on regional differences in school-enterprise co-operation mechanism of vocational education [J]. Education and Career, 2012(30):9-11.
- [72] Qiu Luyi, Yuan Jianping. Responding to regional industrial restructuring: Ningbo's higher vocational education seeks changes[J]. Vocational and Technical Education, 2011, 32(12):47-49.
- [73] Duan Suju, Zhuang Manli, Dong Xinsheng, et al. Enterprises' participation in vocational education: status quo, problems and countermeasures--an analysis based on a survey of some large enterprises in Beijing[J]. China Vocational and Technical Education, 2012(3):22-26.
- [74] Feng Yangsheng. Realistic dilemma and guarantee mechanism of school-enterprise co-operation in higher vocational colleges and universities [J]. Heilongjiang Higher Education Research, 2019(6):84-87.
- [75] Liu Xin. Research on the realisation path of higher vocational school-enterprise cooperation under the perspective of stakeholders[J]. Modern Business Industry(25):37-38.
- [76] Liang, Sweetie. Dilemmas in school-enterprise co-operation of vocational education in China to cultivate practical innovation talents[J]. Rural Economy and Technology, 2018(08):293-294.
- [77] Huang Maoyong. Revision of the Vocational Education Law and Strategies for Constructing the Regulatory System of School-Enterprise Cooperation--Analysis of Jurisprudential Dilemmas Based on School-Enterprise Cooperation in Vocational Education[J]. Education Review, 2017(8):56-60.
- [78] Li Yaxin. Research on the participation of enterprises in the governance of modern vocational education [D]. Tianjin: Tianjin University, 2017.
- [79] Zeng Pioneer. Research on the dilemma and way out of school-enterprise co-operation in higher vocational colleges and universities [J]. Journal of Hubei Institute of Industrial Vocational Technology, 2017(2):16-19+29.
- [80] Long J. Dilemma and countermeasures of school-enterprise co-operation in higher vocational education[J]. Jiangxi Education, 2016(21):10-11.
- [81] Zhang Chao. Analysis of dilemmas and countermeasures faced by school-enterprise co-operation in higher vocational education[J]. Times Finance, 2016(18):209-210.
- [82] Liang Yanqing, Zhang Yonglin, Guan Xin. Research on the satisfaction scale of school-enterprise co-operation education for vocational college students[J]. Vocational and Technical Education, 2011(35):88-91.
- [83] TANG Guohua, ZENG Yanying, LO Jieling. Research on school-enterprise co-operation in higher vocational education based on resource dependence theory[J]. Research on Higher Engineering Education, 2014(4):174-179.
- [84] Peng Wei. Research on Teaching Quality Evaluation of Higher Vocational Colleges and Universities with School-Enterprise Co-operation [J]. Health Vocational Education 2016(15):47-48.
- [85] Hu Weiqing. Research on the performance evaluation of school-enterprise co-operation in higher vocational colleges and universities[J]. Higher Science Education, 2009(06):158-162.
- [86] Wu Jianxin, Yi Xueling, Ouyang He, et al. Construction of conceptual model and index system for four-dimensional analysis of school-enterprise cooperation in vocational education[J]. Exploration of Higher Education, 2015(5):87-92.
- [87] Zhang Lingmei. Research on the effectiveness of school-enterprise co-operation in vocational education in China[J]. Inner Mongolia Education, 2017(24):107-108.
- [88] Yu Qiangbo, Jia Zhicheng. Survey analysis of enterprise participation enthusiasm and satisfaction in school-enterprise cooperation[J]. Liaoning Higher Vocational Journal, 2014, 16(10):55-58.