

Intelligent Multi-Platform Software Practice of Accounting Teaching Innovation under the Background of High-Frequency Data Clustering

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Abstract: Cluster analysis is the process of grouping similar data objects into multiple clusters. Through clustering, valuable knowledge and patterns can be extracted from a large amount of data, and software data can be processed efficiently. Mainly from the influence of intelligence on the accounting industry and vocational education, it further expounds the current situation and existing problems of practical teaching of accounting majors in secondary vocational schools under the background of the new era, and proposes effective reform measures for these problems. This paper studies the problems existing in the current accounting education model in colleges and universities under the background of "Internet + big data"; the training mode of accounting professionals in secondary vocational colleges should also be reformed and innovated according to the changes of the times, from the aspects of teaching content and methods. Carry out comprehensive reform and improvement, so as to supply more high-quality accounting talents for socialist construction.

Keywords: Intelligent Multi-Platform Software, Accounting Teaching Innovation, High-Frequency Data Clustering

1. INTRODUCTION

Partial discharge of a transformer is an important symptom of its insulation deterioration [1]. The degree of partial discharge of a transformer is considered to be an important aspect for judging the operating state of a transformer. Cross-linked polyethylene (XLPE) cables were introduced in the early 1960s and have the advantages of good insulation performance [2], safe and reliable power supply, easy manufacture and installation, etc. It has become the mainstream of cable development and engineering applications [3]. Its clinical manifestations generally include: foreign body sensation in the pharynx or esophagus at first, stagnation during eating, followed by swallowing infarction, and gradually develop to the chest diaphragm every time you eat. Pain, even inability to eat or vomiting after eating [4], often accompanied by stomach discomfort. With the rapid development of intelligent technology, the traditional accounting teaching model can no longer meet the needs of the society [5], in order to adapt to the social demand for accounting talents in the new era. Need, the school's training of talents, need to adapt to the development of the industry.

In the context of artificial intelligence, the teaching objectives and curriculum system of the accounting major should continue to be adjusted accordingly [6], and such adjustments should focus on coherence and logic, so as to achieve an effective connection between secondary and higher vocational courses in terms of curriculum, so that teaching and enterprises demand [7]. Under the background of artificial intelligence, the innovative research on the talent training model of accounting majors in secondary vocational schools will make the accounting major in secondary vocational colleges further develop in terms of talent training. The most important point is that the overall quality of talents will be comprehensive [8]. Therefore, accounting educators in colleges and universities should seize the opportunity and think deeply about how to use the "Internet + big data" model to promote the theoretical innovation and practice of accounting education [9]. Analyzing the actual situation of the current accounting talent education management, the core

control goal is to realize the cultivation of high-quality and high-skilled talents [10].

In the process of learning, the academic certificates that students can obtain can reflect the overall quality of personnel training in vocational colleges [11]. To carry out the construction of "new liberal arts", colleges and universities should not only focus on theoretical construction, but also cultivate students' political quality [12], professional ability and sustainable development ability. By 2020, form a modern vocational education system with Chinese characteristics that adapts to development needs [13], connects secondary and higher vocational schools, integrates industry and education in depth, communicates between general education and vocational education, reflects the concept of lifelong education, and has Chinese characteristics [14]. Anti-interference technologies such as discrimination and wavelet denoising are widely used in partial discharge detection, but due to the shortcomings of partial discharge detection methods such as pulse current method [15], they face strong electromagnetic interference on site. Typical spectra of the internal discharge of the insulating material, the surface discharge of the insulating material and the corona discharge are shown in Figure 1 [16].

Under the background of intelligence, the collection of data is mainly through new methods such as reading to the Internet cloud, importing templates [17], scanning QR codes, etc., to obtain original documents such as invoices, and cash, bank deposit journals can also be obtained through bank statements, Alipay statements, etc. [18] The original data is directly generated. The accounting work based on artificial intelligence has undergone obvious changes. With the participation of artificial intelligence [19], the massive statistics and calculation work in the traditional accounting work will be simplified, accounting, statistics [20].

Therefore, it can have a very broad development and research prospects [21]. At present, artificial intelligence and computer technology are inseparable. Computer technology is the basis for the development of artificial intelligence, and artificial

intelligence can in turn improve the operation sensitivity [22] of computer technology. In the era of "Internet + big data", the popularization and application of computerized accounting [23], Substantial changes have taken place in the content and requirements of the practice training of accounting majors in colleges and universities [24].

2. THE PROPOSED METHODOLOGY

2.1 The High Frequency Data Clustering

Significant changes have taken place in the working methods and methods of accountants, which put forward higher requirements for the knowledge of professional ethics of accountants. The development of teachers' professional ability runs through the process of teachers' entire careers, and the process is long, dynamic and complex. In the 1960s, the rise of research on teachers' professional development laid the foundation for improving teachers' professional ability, such as Fuller. Cluster analysis is a kind of multivariate statistical analysis and an important branch of unsupervised pattern recognition. It divides a sample set with no class label into several subsets (classes) according to a certain criterion. Similar samples are classified into one class as much as possible. It has been used in the detection of power cables, but the UHF signal is attenuated seriously and easily Influenced by the complex environment on site.

The ultra-high frequency detection method can only extract a part of the information in the pulse signal. Under the background of intelligence, the traditional teaching mode can no longer adapt to the development of the times, and new teaching methods and means emerge in an endless stream. Students have more flexible learning time and more space for learning. Freedom is no longer limited to classrooms, libraries, training rooms and other teaching places.

2.2 The Accounting Teaching Innovation

The participation of artificial intelligence changes the content of accounting work and also changes the job settings. Enterprises will inevitably adjust the configuration of accounting positions according to accounting habits and share more artificial auxiliary work. In fact, the manifestation of artificial intelligence in the accounting industry is first of all. The accounting-related models and methods are processed programmatically, so that when the corresponding work is carried out, it can not only reduce human errors, but also optimize the ability of data processing to the greatest extent. Some schools have inconsistent business environments. Problems such as truthfulness, incomplete business settings, and unclear positions have caused students to lose their initiative in learning and enthusiasm for project research. Different vocational colleges have different teaching management schemes in the teaching stage of accounting major.

Analyzing the actual situation of secondary vocational students, we will find that many students will have unsatisfactory results in the senior high school entrance examination. Maintaining trust and loyalty is the most basic ethical requirement in the accounting profession. Accounting practitioners should be honest and fact-based to ensure the authenticity of corporate accounting information. The gray system theory is aimed at the uncertainty problem with no experience and little data, that is, the problem of "less data uncertainty" The proposed problem of identifying and judging the type and degree of discharge through a small number of characteristic parameters of the partial discharge mode is also such a problem. At present, the traditional high-frequency

partial discharge detection technology used in the partial discharge detection of XLPE cables is mainly a partial discharge detection method based on discharge current pulses.

It mainly uses the basic principle of electromagnetic coupling method to collect partial discharge signals. Due to the particularity of accounting positions, the number of enterprises that cooperate with vocational colleges is limited, most of which are small and micro enterprises, and few large and medium-sized enterprises. Compared with the number of accounting majors in secondary vocational colleges. Under the change of job content and job requirements, the business ability of accounting talents must also be changed. According to the existing development trend, the basic abilities that accountants should have under the background of artificial intelligence It will also focus on transformation.

2.3 The Intelligent Multi-Platform Software Practice

In the traditional accounting education model, simply imparting knowledge in textbooks to students does not play a role in divergent learning. With the development of new technologies, it is very necessary to update the course content.

First of all, the development and maturity of accounting computerization makes it difficult for accounting students to recruit excellent teachers in the recruitment process of secondary vocational colleges. Many teachers are external teachers. Even if they have practical experience, in their daily work, they mainly explain professional knowledge, and there are many deficiencies in student management. With the development of Internet technology and the emergence of financial robots, accounting work needs to predict economic prospects, participate in management decisions, control management activities, and expand in the field of accounting.

Among them, secondary vocational schools (hereinafter referred to as "secondary vocational schools") are an important part of my country's education system and the main body of my country's vocational education. It uses a professional training method to carry out skills education for junior high school graduates or people with the equivalent education of junior high school, so as to cultivate skilled talents needed in all walks of life. Fuzzy clustering is to use the fuzzy method to deal with the clustering problem. The method based on the objective function of all UHF signal feature samples is divided into several categories through the optimization iterative algorithm. It is difficult to find each type of discharge, and it is even more impossible to accurately identify the discharge. type or defect type. Therefore, it is a key issue to accurately separate and classify the measured PD signals. The construction of teaching staff is an important factor that reflects the quality of a school's teaching, and the level of teachers' strength determines the height of students.

However, most accounting teachers in secondary vocational colleges do not have rich practical work experience. The talent training of accounting major itself needs to have sufficient financial ability and business level, and in the context of artificial intelligence, its intelligent and compound type also It will be superimposed, that is, the awareness of "intelligence" must be highlighted in talent training, that is, attention and attention to various impacts of artificial intelligence on accounting talents.

3. CONCLUSIONS

The method performs fuzzy clustering on the time-frequency characteristics of the collected PD pulse signals, so as to separate and classify different signals. Taking the accounting ability assisted by artificial intelligence as the training goal, and strengthening the connection of relevant courses in secondary and higher vocational schools, through the mutual connection of course content and systems, the adaptability of talent training will be better strengthened around "artificial intelligence". Innovate and optimize the practical teaching mode. Build a resource sharing platform by improving talent training programs, optimizing faculty structure, and deepening school-enterprise cooperation.

4. REFERENCES

- [1] Ren Yaxian. Discussion on the Innovation and Practice of Accounting Education Model in Colleges and Universities under the "Internet + Big Data" Model [J]. Intelligent Computer and Application, 2020(4):2.
- [2] Cheng Ping, Peng Lanya. Research on MPAcc course satisfaction based on text mining under the background of "Golden Course"—Taking the course "Cloud Accounting and Intelligent Finance Sharing" of Chongqing University of Technology as an example [J]. Finance and Accounting Newsletter: Part 1, 2019 (9):5.
- [3] Wei Jie. Research on the teaching reform of accounting major in secondary vocational colleges under the background of intelligent finance [J]. 2020.
- [4] Huang Xiaobei, Jian Miaoru. Research on accounting teaching reform in the context of artificial intelligence [J]. Times Economic and Trade, 2019(1):2.
- [5] Li Quanjun. Research on the reform and innovation of accounting practice teaching in colleges and universities under the background of "big wisdom and cloud" [J]. Accounting for China Township and Township Enterprises, 2021(12):2.
- [6] Wang Junyang, Zhou Lei, Zhang Shaobing. Research on "Blockchain + Accounting" Based on Co-word Cluster Analysis [J]. Journal of Beijing City University, 2019(3):7.
- [7] Cao Xiaotong, Wang Rong, Yang Jing, et al. Analysis of research hotspots of nursing human resource management based on Web of Science database from 2000 to 2021 [J]. Chinese Journal of Modern Nursing, 2022, 28(12):1607-1612.
- [8] Liu Yujing, Xu Yu, Shen Qin. Co-word cluster analysis on research hotspots of blended teaching in the field of nursing education in my country [J]. Chinese Medicine Education, 2021, 40(6):6.
- [9] Wu Tian, Qu Yi, Tong Yu, et al. Research hotspots of pediatric teaching models in China in the past ten years: Visual analysis based on literature keywords [J]. Chinese Journal of Medical Education Exploration, 2019, Vol. 18, No. 9, 865- 870 pages, ISTIC, 2019.
- [10] Zhao Fengjuan, Ren Yunhong, Chen Ying, et al. Cluster analysis of co-words on educational research hotspots for undergraduate nursing students in my country in the past five years [J]. Medical Vocational Education and Modern Nursing, 2018.
- [11] Ma Hui. Thinking of Accounting Innovation Design under Artificial Intelligence [J]. Business, 2019(6).
- [12] Zhao Jie. Research on the innovation strategy of corporate accounting work under the background of intelligence [J]. Business, 2019.
- [13] Chen Zhenxiang. Research on the innovation of accounting practice teaching in the era of artificial intelligence [J]. Women's Square, 2021(5):2.
- [14] Zhang Chu. Research on the teaching reform and innovation of accounting informatization courses under the background of intelligent finance [J]. Science Education Journal, 2021(19):3.
- [15] Li Haixia. Research on the Construction of the Core Course Groups of the Accounting Major in Private Universities under the Background of Artificial Intelligence—Based on the Practical Exploration and Research of the Accounting Major of C College [J]. Contemporary Accounting, 2020(15):2.
- [16] Zhang Yan. Research on the Optimization of Accounting Professional Practice Teaching under Intelligent Finance and Taxation [J]. Asia Pacific Education, 2021.
- [17] Zhang Xiumei, Tian Tian, Tian Mengmeng, et al. The evolution and trend of smart teaching research in my country in the past ten years [J]. China Distance Education, 2020(9):8.
- [18] Ning Xin, Zhao Zhiyong, Cui Yongguang, et al. Sorting and analysis of research hotspots of project-based teaching topics based on CNKI cluster analysis [J]. 2020.
- [19] Yi Tingting, Fang Fushun, Gao Wa. A review of my country's "Belt and Road" sports culture research [J]. Sports Science and Technology Literature Bulletin, 2022, 30(3):5.
- [20] Liu Xiangyi, Gan Shaojie. Analysis of the hotspots of digital reading for young children at home and abroad based on bibliometrics [J]. Journal of Ningbo Institute of Education, 2022, 24(2):6.
- [21] Hu Xiaoting, Tang Ming. Study on the acupoint selection rule of acupuncture and moxibustion for benign thyroid nodules based on data mining technology [J]. Massage and Rehabilitation Medicine, 2022, 13(12):5.
- [22] Zhang Lu, Liu Yuanxiang. Analysis of the medication rule of "Pujifang" in the treatment of epilepsy [J]. Chinese Medicine Herald, 2022, 28(3):5.
- [23] Du Juan, Li Zhan, Ye Yan. Discussion on medication rules of phlegm-heat obstructing lung syndrome in acute exacerbation of chronic obstructive pulmonary disease [J]. China Medical Herald, 2022, 19(8):5.
- [24] Zeng Jinsheng, Ni Weicheng, Sun Lili, et al. Exploring the medication rules of traditional Chinese medicine in the treatment of allergic rhinitis-asthma syndrome based on data mining [J]. Chinese Medicine Herald, 2022, 28(3):5.
- [25] Lian Yanjie, Jiang Yanjun, Tong Tong, et al. Analysis of Liu Hongxu's medication rule for chronic heart failure based on data mining [J]. Beijing Chinese Medicine, 2022, 41(1):6.