

## New Development of Educational Management Informatization: Towards Intelligent Management

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**Abstract:** With the development of economy and the progress of society, education has made good progress. The progress of science and technology has brought great convenience to human work and life. Especially in the education system which symbolizes the progress of national economic development, the information management mode is becoming more and more mature. Therefore, the author studies the new development of educational management informatization: towards wisdom management. Studies have shown that under the current situation, the IoT and the good use of some information technologies such as cloud computing and big data, education management has gradually shifted from the traditional model to the "smart management." Wisdom education is mainly an information ecosystem based on high technology. It has the characteristics of intelligence and perception, and has become an important indicator in modern education.

### 1. Introduction

With the development of the times, China's comprehensive national strength is constantly rising. Under such circumstances, the state attaches great importance to the management of education [1]. Under the influence of such an era of wisdom and ubiquity, the informationization of education management has gradually moved toward the era of wisdom management [2]. The "National Medium- and Long-Term Education Reform and Development Plan Outline" states: "Information technology has a revolutionary impact on education development and must be highly valued [3]." The emergence of smart education has driven educational concepts, teaching models, learning concepts and Changes in methods, teaching management and teaching evaluation. China's education management information construction has been carried out for many years, and has made great progress and development, but we must also see the lack of progress [4]. At present, China's education management informatization still has the following shortcomings. The state has repeatedly stressed that colleges and universities should lead the modernization of education by informationization and promote the deepening of the reform and development of education and teaching [5]. Relatively speaking, our country has made some achievements in the development of education, but some negative problems of education also appear frequently, especially in the management of education. There is no doubt that intelligent education is a new product of the new generation of information technology, such as the Internet of Things, cloud computing, wireless communication, etc. [6]. It is a new educational information ecosystem which integrates the collection, intellectualization, perception and generalization. It is also a new step in the development of educational informatization.

In recent years, the progress of science and technology is changing with each passing day. With the continuous innovation of advanced technologies such as Internet of Things, Cloud Computing and Big Data, the era of wisdom has come quietly [7]. In the end, the problems in education management are decided by the imperfection of education system. At present, the management of educational undertakings has gradually changed from the traditional management mode to the wisdom management mode [8]. Wisdom education is an important part of wisdom in Province. It is based on the new generation of information technology, centered on promoting the development of learners'

wisdom, and highly integrated with the whole educational component or all educational links through information technology [9]. Systematize and deepen the development and application of educational resources and information. And the majority of teachers and students and the public enjoy the educational development of high-level education services. Wisdom education is an educational information ecosystem based on the new generation of information technology, which is connected, intelligent, perceptual and ubiquitous. Based on the deep integration of technology and education, the realization of education innovation and change is the core goal of wisdom education. School information management has become an important part of education informationization. Under the concept of wisdom education, it not only requires schools to pay attention to the application of advanced technology, but also requires managers to innovate in management concepts and institutional methods [10]. However, the development history of higher vocational colleges is short, the foundation of education management is weak, and the experience is insufficient. Therefore, cooperating with intelligent campus construction and accelerating the construction of education management informationization is one of the important ways to improve the education management level and quality of higher vocational colleges. .

## **2. The Situation Faced by Education Management Informationization**

With the rapid development of science and technology, cloud computing and big data and wireless communication technologies are constantly appearing. To a certain extent, the emergence of these technologies plays an important role in the informationization to the era of wisdom. Wisdom education is produced in the era of wisdom. Relatively speaking, smart management replaces traditional information management. At present, there is a lack of unified and perfect informationization standards in education management in our country, and the informationization standards of education management in different regions and even in various education management departments are different, which results in the uneven development of informationization of education management. Wisdom is not only an innovation of knowledge, but also a unity with objective objects. Management informationization, the development of school internal management system, in the realization of educational network management at the same time, the realization of campus office network management.

For a long time. Education in China has attracted wide attention. The main purpose of Chinese education is to cultivate more talents. Intelligent management refers to the intelligent processing of demand information from the outside world through the intelligent management cloud platform system, which provides technical support for education management, such as resource allocation, data integration, information management, operation status monitoring and education quality monitoring. Our education policy was once formulated around the imparting of basic knowledge and skills. The means of testing was examinations, and the criteria were scores. The virtual digital campus provided by information education, relying on abundant network information resources, can provide students with broader self-learning space. From the school management department to the second-level branch, people from different levels, from school leaders, teachers to students, can obtain different data through the education management information platform and achieve different levels of resource sharing. The open school teaching resource library has changed the situation that the classroom is the only learning place in traditional education, which provides the possibility of fragmented learning and interactive learning.

## **3. Characteristics of Wisdom Education Management**

For transparent disclosure, it is an important trend in the development of the information age. For the traditional education management system, there are limitations such as the characteristics of transparent disclosure. In the visual information management system, managers can query the required information through different views such as charts, videos, and three-dimensional scenes. In these multidimensional, intuitive views, managers can have a clearer understanding and analysis of data and its structural relationships in a more intuitive way. Modern information technology provides

a broad space for teachers to grow rapidly and grow collectively. The level of teaching management largely represents the management level of the entire school, and the quality of teaching is also largely dependent on the level of teaching management. At the same time, the education management information system includes all aspects of education and teaching activities. Expanding the linking resource pool and excellent courses can realize the great sharing of teaching resources. Although there are some problems in the informationization construction of education management in China, under the hard work and preliminary exploration of all levels of education management departments and universities, education management has collected a large amount of original data, which provides a solid data base for wisdom management. Automatic regulation refers to the dynamic adjustment of environmental indicators such as light, temperature and humidity in the environment spontaneously by the management system through the perception of the external environment.

Intelligent education is based on Informationization of education and achieves balanced development of education by means of intellectualized technology. In order to clarify the characteristics of wisdom education, the following comparisons are made between wisdom education and digital education:

Table 1 Comparisons between Intelligence Education and Current Digital Education

Feature dimension	Digital Education	Wisdom Education
Development stage	Application of Information Technology in Teaching	Two-way integration of technology and teaching
Human status	People find information	Information for people
Technical Officer	Tools, Media	Seamless Information Ecology
Core technology	Multi-Media	Cloud Computing, Big Data, Semantic Web
Technical synergy	Technical independence and separation	Seamless flow of information

Informatization of teaching management refers to the process of using modern computer network and other information technology to manage the teaching process under the guidance of scientific education and management ideas, so as to achieve the teaching objectives. We will improve the construction of smart campuses, integrate and optimize the application system of educational management, integrate and promote various high-quality educational resources, and realize the digitalization, networking and intellectualization of teaching, scientific research, management services and cultural construction. For example, managers can extract valuable information from data through classification, clustering, prediction, sequence, regression, Association and other methods in data mining technology. With the development of science and technology, the information education system can no longer meet the actual needs, so the wisdom management system should be continuously improved. Only by having a sound intelligent campus information construction mechanism can education informationization construction become a long-term work and promote the development of higher vocational education. This kind of approach is not only the development trend of education management informationization, but also an important goal and determination to move towards smart management.

#### 4. Conclusions

With the rapid development of information technology, intelligent education management is an inevitable trend in the development of educational management informatization. When intelligent decision-making is finally formed, managers can send management dispatching instructions to all levels through the intelligent management cloud platform to realize the visual management of intelligent management decision-making. Educational administrative departments at all levels and

schools at all levels are the main bodies of implementation of the construction of wisdom education. According to the unified deployment of provinces and their own needs, work is scientifically promoted. Finally, the innovation of teaching management methods and the teaching process under wisdom education have become an open system, and corresponding changes have taken place in teaching management methods. In wisdom management, education managers can have a comprehensive understanding of the development of education, and their education decision makers can analyze the data pertinently. In order to make scientific and reasonable decisions, it also enables maintenance personnel to comprehensively diagnose and repair problems. In the smart management cloud platform, all in-service education managers can obtain decision information in a timely manner through the cloud platform regardless of the department, and then implement and implement the decision information into the work. In the aspect of standard protection, we carry out basic research on the standardization of smart education, and establish a series of standard specifications for provincial-level smart education environment configuration, technology, management, and application evaluation that are linked to national education information standards and norms.

## References

- [1] Kuchma V R, Tkachuk E A, Tarmaeva I Y. Psychophysiological state of children in conditions of informatization of their life activity and intensification of education. *Gig Sanit*, 2016, 95(12):1183-1188.
- [2] Tkachuk E A, Tarmaeva I I. [Neuropsychic development in preschool children in conditions of the informatization]. *Gig Sanit*, 2014, 93(6):23-26.
- [3] Abou-Warda S H. New educational services development. *International Journal of Educational Management*, 2016, 30(5):698-717.
- [4] Kuchma V R, Tkachuk E A. HYGIENIC ASSESSMENT OF INFORMATIZATION OF EDUCATION AND UP-BRINGING.. *Gig Sanit*, 2015:16-20.
- [5] Ekmekçi, Aslı Küçükbaşlan, Teraman, Seray Begüm Samur, Acar P. Wisdom and Management: A Conceptual Study on Wisdom Management. *Procedia - Social and Behavioral Sciences*, 2014, 150:1199-1204.
- [6] Zarli A, Rezgui Y, Belziti D, et al. Water Analytics and Intelligent Sensing for Demand Optimised Management: The WISDOM Vision and Approach. *Procedia Engineering*, 2014, 89:1050-1057.
- [7] Muyzenberg L V D. The contribution of Buddhist wisdom to management development. *Journal of Management Development*, 2014, 33(8/9):741-750.
- [8] Zhang X, Shangguan L, Yuan Y. A Crowd Wisdom Management Framework for Crowdsourcing Systems. *IEEE Access*, 2017, 4:9764-9774.
- [9] Küpers, Wendelin M, Pauleen D. Learning wisdom: Embodied and artful approaches to management education. *Scandinavian Journal of Management*, 2015, 31(4):493-500.
- [10] Bender, Bruce G. Improving Asthma Self-Management: Searching for Pearls of Wisdom. *The Journal of Allergy and Clinical Immunology: In Practice*, 2016, 4(1):142-143.