

RELATIONSHIP BETWEEN THE DEGREE OF URBAN INTELLIGENCE WITH ARTIFICIAL INTELLIGENCE AND FUZZY ALGORITHMS AND THE PERFORMANCE OF ENTERPRISES

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This article has comprehensively evaluated the development and evaluation model of intelligent cities on the performance of enterprises in the performance of intelligent cities in the artificial intelligence technology model, established a fuzzy algorithm analysis and evaluation model, and comprehensively evaluated the development level of intelligent cities and the level of performance management in cities. By using AI technologies such as the Internet of Things cloud computing, the intelligent terminals of the whole city are organically integrated to achieve the integration and development of various industries in smart cities and promote the two-way improvement of artificial intelligence and the performance management of enterprises in the city. At the same time as the development advantage of urban enterprises, the development advantage of urban enterprises is more convenient for making human production and living activities in cities through the integration and development of diverse elements and multi-technical fields in life.

Keywords: Artificial Intelligence; Fuzzy Algorithm; Smart City; Intelligence Degree; Corporate Performance.

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1. INTRODUCTION

With the development of artificial intelligence technology, the convenience of 4G and 5G networks in the city is becoming more and more extensive. It is more targeted in the collection and management of big data. Artificial intelligence brings greater production and living activities to human production and living activities Change. Through the application and expansion of big data knowledge, the development of smart cities has entered a new level. Through the use of artificial intelligence technology for deep learning, computers simulate artificial intelligence for AI technologies, such as human-computer interaction, so that the development of smart cities will be established and established On the basis of high -tech, let the development of cities have distinctive characteristics (Chen, 2022; Gao and Lu, 2015; Sun *et al.*, 2021). Effectively improved urban transportation optimization, environmental improvement, ecological construction, and civilized construction, making the progress of society more obvious. At the same time, it also promotes the production efficiency and productivity level of internal enterprises in the city, allows the development of enterprises to be based on artificial intelligence technology, and allows enterprise performance management to enter a new development area.

A fuzzy algorithm is also called an intelligent algorithm, a non-model algorithm. The fuzzy algorithm is mainly used in the case that the control model of the system cannot be studied due to subjective or objective reasons. When studying a system, it is necessary to analyze the system model according to the system model and design a controller suitable for the system model. But almost all systems in the real world are nonlinear and unpredictable. Our solution is to abstract the system similar to the linear model into a linear model on the one hand, and on the other hand, the system that cannot be abstracted into a linear model is solved by a fuzzy algorithm.

Fuzzy computing is based on fuzzy set theory. It can simulate the inexact and nonlinear information-processing ability of the human brain and has applications in many fields. The fuzzy algorithm plays an important role in the development of smart city construction and enterprise performance. The fuzzy algorithm can solve the system research problem of smart city construction and help to build a smart system, so as to help smart city construction. A fuzzy algorithm is also essential for enterprise performance development. For efficient and intelligent enterprise management system, improving the operational efficiency of enterprises are of great help. In the process of intelligent urban construction, artificial intelligence technology, through the concept of scientific development and an innovative application of artificial intelligence technology, allows the construction of the city to integrate into various fields of production and life based on the level of artificial intelligence level,

especially in the city, especially in the city. The scientific evaluation of artificial intelligence in the production and operation activities of enterprises and performance management has enabled the company's productivity, productivity level, and performance management to reach a new height (Deng and Huang, 2019; Ge *et al.*, 2022). In the process of enterprise performance management, we pay attention to artificial intelligence data collection. Performance data to achieve a scientific evaluation of enterprise productivity and production benefits. Find the shortcomings of the development of enterprises to make up for targeted to achieve sustainable development and improvement of enterprises.

Artificial intelligence has moved from laboratory to industrial production in the past decade, reshaping the traditional industry model and leading the future. The value has been highlighted, and it has made an important contribution to global economic and social activities. At present, artificial intelligence has ushered in the third wave in its development history. Artificial intelligence theory and technology have achieved rapid development, and breakthroughs have been made in perceptual fields such as speech recognition, text recognition, and video recognition. It has reached or exceeded human standards and has become a strategic technology leading a new round of scientific and technological revolution and industrial transformation. The application fields of artificial intelligence are also rapidly developing in multiple directions, appearing in more and more scenes closely related to people's daily life.

2. THE CURRENT STATUS OF WISDOM AND CORPORATE PERFORMANCE IN CITIES

2.1 The Degree of Wisdom of Urban Wisdom on Production and Life Changes

In the process of smart city development, the extensive application of artificial intelligence technology and the continuous optimization of fuzzy algorithms have made great progress in the development of smart cities. The development of an intelligent city has brought great changes to production and life, especially in the process of the wide application of big data and Internet technology, which makes the Internet, life, diet, communication and learning activities of human beings more convenient. Especially the construction of an intelligent urban garbage disposal system. By constructing an intelligent garbage classification and treatment program, each garbage can is equipped with an inductive intelligent garbage classification and treatment sensor so that the whole process of garbage collection, treatment and reuse can be realized, and the effective operation of artificial intelligence can be realized. Especially in the process of applying artificial intelligence technology to intelligent garbage classification and management, through the extensive application of intelligent technology, the operation cost is reduced, the efficiency and safety of urban garbage treatment are realized, and the living environment of the city is better. The intelligent system constructed by artificial intelligence and fuzzy algorithm plays an important role in promoting the process of urban intelligence and the healthy development of enterprises (Benzell *et al.*, 2015; Guo, 2019; Jiang *et al.*, 2022; Wang, 1995; Wen and Ye, 2014).

2.2 Intelligent Urban Waste Treatment

The application of intelligent technology has brought huge changes and technical challenges to the development of urban enterprises. In the development of urban waste treatment classification enterprises, by constructing an intelligent garbage classification processing process, the induction is installed on each trash (Benzell *et al.*, 2015). The type of intelligent garbage classification and processing sensor allows the entire process of recycling, processing, and reuse of garbage to achieve effective artificial intelligence operation, especially in the process of applying artificial intelligence technology, in the process of using garbage intelligent classification and management, through extensive through extensive Intelligent technology, reduce operating costs, realize the efficiency and safety of urban waste treatment, and make the living environment of the city better (Guo, 2019). The intelligent recycling station integrates garbage classification and recycling and convenience services. The service station can choose different types of intelligent garbage collection boxes for household garbage classification and recycling. Each size LCD screen can be selected above the garbage box for community garbage classification publicity and advertising. In addition to the garbage collection function, the service kiosk can be used for large-scale recycling, free education, community service information display, etc., to create a new intelligent living environment and a new pattern of high-quality life for users.

2.3 Construction of Intelligent Public Security Protection System

In the process of smart cities, the factory shopping malls and government departments can effectively control the activities and production and living behaviors of the entire city by using the intelligent face recognition system to prevent the occurrence of crimes to the greatest extent. The application of human production and living activities is more convenient, especially in the use of intelligent face recognition systems to carry out identity positioning, cash payment and other public transportation

applications, effectively improving the convenience of social production and life, Making the development of the entire intelligent city closer to human production and living activities, and improve the safety level of urban communities.

2.4 Smart Urban Traffic Management Platform

During the development monitoring of enterprises in the city, by building an intelligent transportation management system, urban enterprises make urban enterprises more convenient in production and living activities and logistics, allowing intelligent transportation management and more in line with the needs of production and living. By collecting the big data of smart cities, the road conditions are intelligently evaluated and analyzed in different periods, different sections, and different conditions (Graetz and Michaels, 2018). The transportation management system makes data-based urban transportation more in line with actual transportation needs, minimize labor costs, make socialized production more convenient, and effectively promotes the management level of enterprise production performance. The investment in 2016-2021 smart city transportation management investment is shown in Figure 1.

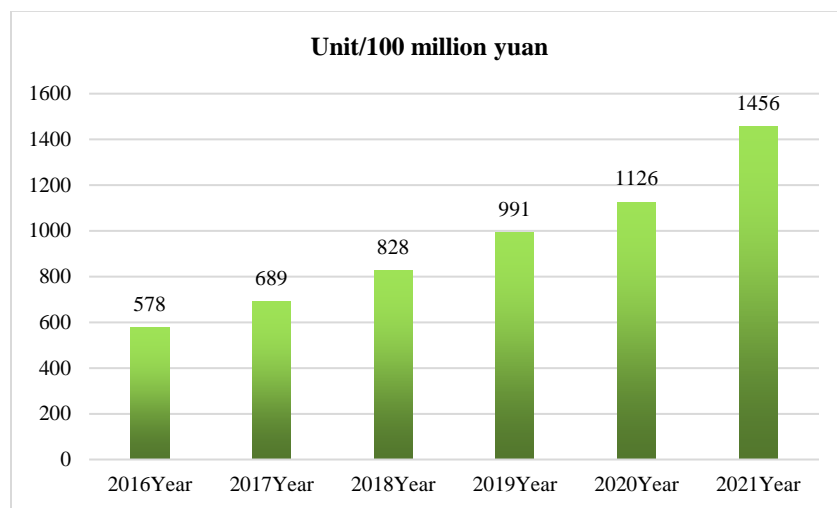


Figure 1. Investment in 2016-2021 Smart City Transportation Management Investment

In summary, the development of smart cities in China is increasing year by year. The development of urban intelligence has improved the quality of life of residents, improved the security prevention and control system, promoted the intelligent development of transportation, and greatly promoted the construction of smart cities. These phenomena also reflect that corporate performance is constantly improving.

3. URBAN INTELLIGENCE LEVELS TO PROMOTE CORPORATE PERFORMANCE MANAGEMENT

In the process of development of smart cities, the production and development of corporate performance were effectively promoted. In recent years, the scale of my country's economic development has increased year by year. Under the huge room for development, the performance management of enterprises in urban enterprises requires the vigorous assistance of artificial intelligence technology. Improve the level of digital intelligence and achieve orderly scientific development of enterprise productivity levels (Agrawal *et al.*, 2019).

In recent years, the process of digital upgrading of domestic industries has been accelerating. The new infrastructure represented by the Internet of Things construction, 5G network, big data and artificial intelligence has been fully developed. The digital economy has become the key kinetic energy to promote sustained and stable economic growth. Especially affected by the new coronavirus epidemic, even the management mode of many domestic enterprises has shifted from the traditional mode to the digital management mode. At the same time, the enterprise digital management platform plays an important role in the digital management mode. According to the trend of today's market, enterprise digital management is no longer a novelty. Therefore, if you want to do a good job in digital management, then building an enterprise digital management platform has become the consensus of most enterprise managers. There are roughly three directions for building an enterprise

digital management platform on the market: (1) independent research and development; (2) please outsource development; (3) purchase a ready-made digital management platform.

3.1 Smart Cities Have Promoted the Improvement of the Enterprise Performance Management System

Artificial intelligence can be divided into strong artificial intelligence and artificial intelligence. The strong artificial intelligence view holds that it is possible to create intelligent machines that can really reason and solve problems, and such machines can be considered perceptual and self-conscious. Strong artificial intelligence can be divided into two categories: human-like artificial intelligence, that is, machine thinking and reasoning, are like human thinking. Non-human artificial intelligence, that is, machines produce perceptions and consciousness that are completely different from humans, using completely different ways of reasoning. The TOP-DOWN AI view holds that it is impossible to create intelligent machines that can truly reason (REASONING) and solve problems (PROBLEM_SOLVING). These machines only seem to be intelligent but do not really have intelligence and are not autonomous. Big data analysis refers to the analysis of large-scale data. Big data refers to the collection of data that cannot be captured, managed and processed by conventional software tools within a certain time range. Data analysis is the process of studying and summarizing data in detail in order to extract useful information and form conclusions.

By constructing the national intelligent urban development operating system, the country focuses on the development and application of artificial intelligence technology in the development of smart cities. By applying intelligent management technology to the production and living management activities of enterprises, the development of cities and the improvement of enterprises has brought new challenges. On the chain of big data and production activities, through the application of big data and artificial intelligence technology, service enterprises and large state-owned enterprises have brought new solutions in improving productivity and improving production efficiency. Development has brought about promotion and effective planning and solves a series of problems in cities in terms of traffic congestion, energy planning, environmental governance, and public safety (Martech, 2013). It has created a broader development platform for the development of artificial intelligence technology, which has steadily improved the production efficiency of enterprises and more scientific performance management. In Figure 2, the level of artificial intelligence and productivity and benefits of my country from 2016 to 2021 reflects the growth trend year by year.

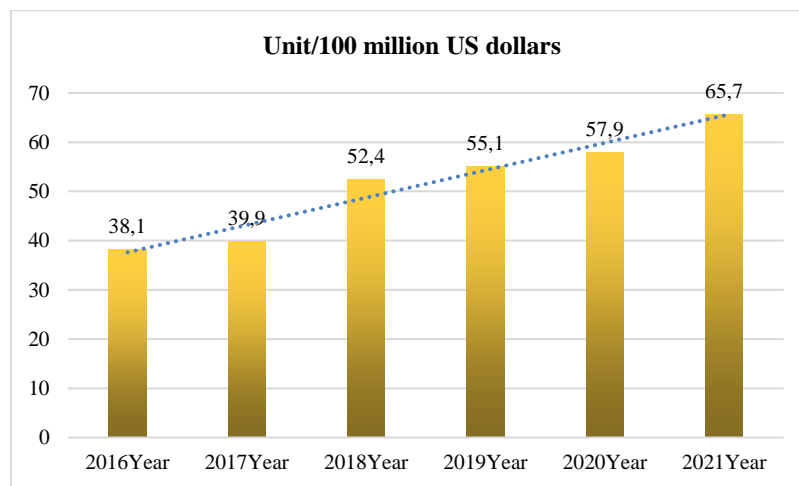


Figure 2. 2016-2021 Survey of Artificial Intelligence Productivity Levels

Figure 2 reflects that the level of artificial intelligence productivity will continue to rise from 2016 to 2021, increasing by about 75 % year-on-year by 2021. This shows that the development of smart cities has promoted the development of productivity.

3.2 Smart Cities Promote Corporate Performance Service Improvement

The application of artificial intelligence technology has brought new development concepts to the development of smart cities. In an enterprise, through the construction of a digital trading platform, artificial intelligence transactions are more scientific. By pushing and promotion of products that meet the needs of different human production and living, transaction

activities are more targeted (Jiao, 1996; Xie and Sun, 2022). By establishing a national new type of artificial intelligence technology management platform, the research of AI technology is closer to the needs of human life so that the development of enterprises is based on offline scenarios such as intelligent transportation management and commercial services, and build an intelligent management platform that meets the needs of human life. The problems of modernization of social governance, the industrialization of AI technology, and the servitization of modern life was effectively solved.

3.3 Management of Digital Enterprise Development Performance Management Plan

The development of AI technology has promoted the accelerated development of enterprise productivity levels. While breaking through the ceiling of the enterprise's production benefits, by using artificial intelligence technology and big data, IoT technology, production and living activities can be used to make production and life activities more accurate and intelligent. The level of performance management is more scientific and efficient and continuously improves the efficiency of the full element of the enterprise (Acemoglu and Restrepo, 2019). In the process of promoting the improvement of the production and living efficiency of enterprises, it has improved the ability of enterprises to deal with various special conditions. In the process of building a strong artificial intelligence management platform, the processing capacity of big data has been expanded, and the key capabilities of enterprises in terms of productivity updates and efficiency improvement are focused on (Wang and Lu, 2000; Zheng *et al.*, 2022). In Table 1, we conducted a comprehensive investigation of artificial intelligence solutions in people's travel methods in the city in 2021. The survey results show that humans have obvious dependence on intelligent travel schemes.

Table 1. 2021 Urban Travel Artificial Intelligence Solution Ranking List

Rank	Company	Product	Market share
1	Gaode Information Technology Co., Ltd.	Gaode Map	25%
2	Beijing Xiaochetong Technology	Didi taxi	21%
3	First science	Suggam	19%
4	Baidu Online Network Technology Company	Baidu map	18%
5	Shenzhen Youcou Information Technology Co., Ltd.	Shenzhen special car	18%
6	Beijing Mobike Technology Co., Ltd.	Bicycle	17%
7	Beijing Baikrock Technology Co., Ltd.	Ofo shared bicycle	16.5%
8	Tianjin Lu Ding Technology Co., Ltd.	Little Blue Bicycle	16.5%
9	Dongfang Cheyun Information Technology Co., Ltd.	Easy-to-use car	16%
10	Tencent	Tencent Map	15%

According to the situation announced by the State Administration of Data, in urban agricultural production and living activities, traditional agricultural development has given new development potential through the application of artificial intelligence technology so that agricultural production and operation activities rely on big data analysis and artificial intelligence pairs. The grasp of the weather is accurate and efficient to achieve agricultural production and operation activities (Wang *et al.*, 2020). In terms of food management, through the construction of a digital public service platform, the level of modernization of food, as well as industrial digitalization, and the level of intelligent services in the park have been effectively improved. By achieving digital and intelligent platform management, food safety and circulation are more efficient and secure.

3.4 Smart City Provides an Effective Social Governance Environment for Corporate Performance Development

The huge changes that artificial intelligence technology brings to the city have made social security more stable, bringing a stable environment to enterprise discovery. Focusing on the direction of urban intelligent monitoring and public safety in terms of economic operations, public services, social security resources, and environmental management of urban enterprises, artificial intelligence technology integrates big data and IoT technology. Management departments realize macro-monitoring, coordination, command and control of cities. In the process of modernization of urban governance, the public security of society is fully and effective (Zhou, 2015). In Figure 3, a comprehensive investigation of the development of domestic smart hotels was conducted. In the survey, different intelligent hotels have increased the effects of artificial intelligence technology applications effects and increased their investment in catering services, business, comprehensive meetings and other aspects. Technical support has achieved the long-term development and quality improvement of smart hotels.

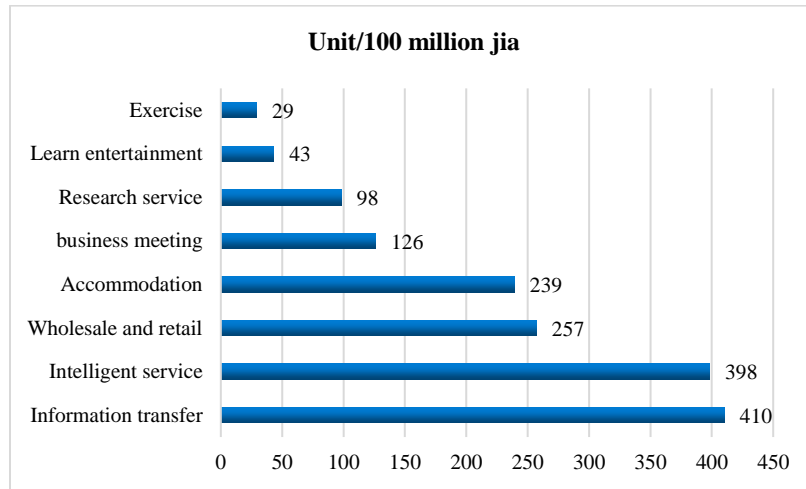


Figure 3. Intelligent hotel Service Contains the Number of Hotels with Different Service Functions

3.5 Use Smart Cities to Build a Public Service Management Platform

Through the analysis of artificial intelligence technology and big data, effective technical applications and data innovation were carried out in the construction of epidemic prevention and control, especially the construction of public health defense systems (Lankisch *et al.*, 2019). Especially during the epidemic prevention and control stage, through big data analysis of crowd flow, people from different risk levels conduct early warning and epidemic prevention and control, promoting people with different risk levels to be reasonably controlled, effectively controlling high-risk groups Development.

During the application of artificial intelligence technology and big data monitoring processing, it not only guarantees personal privacy and security but also provides an important monitoring data foundation for community governance and personnel flow. Through human monitoring and prevention, and control of people of different risk levels in production and living activities, it can better monitor and control the spread of epidemic when there is a large hygiene -prevention and control problem so that human development and production activities can be effectively guaranteed to ensure effective guarantee Essence In addition, and big data technology provides important data support in the development of high-risk people and the development of epidemic conditions, and provides huge security guarantees for the government and epidemic prevention and control department (Liu and Sun, 2010).

3.6 Urban Wisdom Promotes the Contribution of Enterprises in Green Ecological Construction

Artificial intelligence technology brings a new concept of development to the development of the green ecological environment. By constructing the smart city ecosystem, the development of cities is based on the reasonable control of production and living activities. The development of an enterprise not only ensures the continuous improvement of its own productive level and the improvement of production efficiency but also ensures the reasonable requirements of ecological development in the city and realizes the steady improvement of the quality of human production and life. Through the research on the needs of human life in different regions of the city, the development of the enterprise is more targeted, and the efficiency of production and life is continuously improved. At the same time, in the process of building an intelligent operating system and various intelligent problem solutions, the enterprise realized interactive consultation and exchange management platform has properly resolved human life and production problems (Lin *et al.*, 2003; Liu *et al.*, 2022). In Table 2, we investigate the proportion of artificial intelligence technology of different domestic enterprises. The situation is as follows.

Table 2. The proportion of Artificial Intelligence Markets in Domestic New Enterprises

Number	Company Name	Intelligent Technology Application Proportion
1	Hisense Network Technology	14.1%
2	Shanghai Baoxin Software	13.2%
3	Zhejiang University Central Control	12.0%
4	China Railway Electricization Bureau Group Co., Ltd.	11.0%

Number	Company Name	Intelligent Technology Application Proportion
5	Tongfang shares	9.1%
6	China Railway Communication Signal Shanghai Engineering Bureau Group	7.1%
7	Henan Brilliant Technology	6.2%
8	Shenzhen Dashi Smart	6.1%
9	Guodian Nanjing Automation	4.0%
10	Beacon Communication Technology	4.1%
11	other	13.1%

It can be seen from Table 2 that the proportion of artificial intelligence market applications in medium-sized enterprises in the table is not much different, showing a balanced development state. In the process of widespread development of big data and Internet of Things technology, the application efficiency and accuracy of artificial intelligence technology have also continued to improve, promoting the effective improvement of corporate performance management and allowing enterprises to promote the effective improvement of productivity under the driving of smart cities. During the survey of the entire intelligent city development technology, the performance management of enterprises, the support of artificial intelligence and big data technology, to make the company's production activities and performance management more scientific, promote the security of financial management, effectively resolve the risk of enterprise risks. When it happened, the enterprise provided important technical support in terms of safety management, risk prevention and prevention of human errors. At the same time, the operation and analysis of artificial intelligence technology and big data technology can be used to accurately provide accurate direction and reasonable suggestions for the reform and measures of enterprises (Liu and Feng, 2015). In the macro aspect, increase policy and financial support. Support information technology research and development institutions and enterprises and strive to create new systems and new results in information technology; promote manufacturing enterprises to accelerate the application of relevant information research results. Encourage enterprises to accelerate internal information technology R&D and innovation through special funds. Grasp the typical, and push the advanced. Efforts to launch a number of successful practice 'Made in China 2025' star enterprises to promote the advanced experience. In the province's enterprises, to promote the development of information technology, excellent management experience and technical means to promote the 'two' depth of integration in the 'first try' business model to promote the overall progress of the industry. Establish industrial chain information interconnection and technology standardization mechanism. Encourage the establishment of information interconnection and technology standardization mechanisms among 'suppliers, manufacturing enterprises and customers', and collaboratively develop the application products of information technology in enterprise production management. In the micro aspect, we will increase the quality requirements for integrated management talents and improve the level of integrated management.

4. THE FUZZY EVALUATION MODEL CONSTRUCTION OF CORPORATE PERFORMANCE IN THE SMART CITY MODEL

4.1 Construction and Decision Evaluation of Fuzzy Algorithms

The fuzzy comprehensive evaluation method is widely used in fuzzy mathematics. In the evaluation of a transaction often encounter such a problem because the evaluation of the transaction is determined by many factors, and therefore to evaluate each factor; on the basis of making a separate comment on each factor, how to consider all factors to make a comprehensive comment is a comprehensive evaluation problem.

Based on the fuzzy evaluation model, the assessment of the influencing factors of smart cities in the performance of smart cities in the process of corporate performance, and through the use of mathematical models for fuzzy matrix operations, comprehensive decision-making evaluation is achieved. In the process of different weight factors and indicators, the impact of more scientifically judging the development of intelligent technology on corporate performance (Martin *et al.*, 1981).

The basic idea of the fuzzy comprehensive evaluation method is: on the basis of determining the evaluation grade standards and weights of evaluation factors and factors, the fuzzy set transformation principle is used to describe the fuzzy boundaries of each factor and factor with membership degree, and the fuzzy evaluation matrix is constructed. Through the multi-layer compound operation, the grade of the evaluation object is finally determined.

Establish an evaluation of some new artificial intelligence enterprises: Establishment of Evaluation factor:

$$F = \{f_1, f_2, \dots\} \quad (1)$$

Establish a collection of comments on the performance management effect of enterprise:

$$P = \{p_1, p_2, \dots, p_n\} \quad (2)$$

Try to blur the information evaluation matrix based on the fuzzy algorithm:

$$W = \begin{bmatrix} w_{11} & w_{12} & \dots & w_{1m} \\ w_{21} & w_{22} & \dots & w_{2m} \\ \vdots & \vdots & \vdots & \vdots \\ w_{n1} & w_{n2} & \dots & w_{nm} \end{bmatrix} \quad (3)$$

In general, the factors of the factor set to play different roles in the comprehensive evaluation. The result of the comprehensive evaluation is not only related to the evaluation of each factor but also largely depends on the role of each factor in the comprehensive evaluation. The methods to determine the weight are the weighted average method, crowd evaluation method and so on. We use the analytic hierarchy process to determine the evaluation weight of a company's performance.

We give specific weights on the above evaluation proof:

$$K = \{k_1, k_2, \dots, k_n\} \quad (4)$$

The results of the results are commented on:

$$D = K_f \cdot W = \begin{bmatrix} K_{f1} & K_{f2} & \dots & K_{fn} \end{bmatrix} \begin{bmatrix} w_{11} & w_{12} & \dots & w_{1m} \\ w_{21} & w_{22} & \dots & w_{2m} \\ \vdots & \vdots & \vdots & \vdots \\ w_{n1} & w_{n2} & \dots & w_{nm} \end{bmatrix} \quad (5)$$

By building an enterprise performance management system and model, the development of intelligent cities during the model analysis, as well as the factors of technological innovation to the production and life of enterprises and the improvement of productivity improvement. And evaluating the data analysis of experts, it has obtained an important evaluation system for corporate performance management decision-making evaluation (Liu and Feng, 2015).

After the construction of the above-mentioned fuzzy algorithm models, the actual analysis and evaluation of the performance of the enterprise, and the comprehensive assessment of the level of enterprise performance management of the development of the enterprise for the development level of urban intelligence (Table 3).

Table 3. Comprehensive Assessment of the Level of Intelligent Performance Management of a Company

First-level Indicator	Weights	Secondary Indicators	Weights	Comments			
				Very Good	Good	Generally	Poor
Profitability	0.41	Total asset yield	0.41	0.77	0.13	0.09	0.01
		Roe	0.26	0.81	0.11	0.08	0
	0.19	Capital preservation rate	0.19	0.70	0.20	0.05	0.05
		ol	0.17	0.68	0.22	0.08	0.02
Operational Capability	0.19	Total asset turnover rate	0.45	0.72	0.18	0.06	0.04
		Louple funds turnover rate	0.30	0.75	0.15	0.10	0
	0.23	Inventory turnover	0.19	0.65	0.25	0.10	0
		Accounts receivable turnover rate	0.12	0.65	0.10	0.15	0.10
Debt Repayment	0.23	Total asset-liability ratio	0.51	0.70	0.10	0.20	0
		Cash flow	0.25	0.75	0.10	0.10	0.05
	Flow rate	0.19	0.65	0.15	0.10	0	
Development Potential	0.17	Net asset-liability ratio	0.11	0.80	0.10	0.10	0
		Sales rate	0.61	0.75	0.10	0.10	0.05
	0.17	Capital accumulation rate	0.34	0.65	0.20	0.10	0.05
		Total asset growth rate	0.21	0.75	0.20	0.05	0

In Table 3, the profitability, operational capability, solvency, and development potential of the 'very good' column scored higher than 0.65, indicating that the enterprise's intelligent performance development is good. Through the above analysis, we can find that in the process of smart city development, it has a huge role in promoting and promoting the management of enterprise performance and can well evaluate the scientific and targeted development of an enterprise. In the process of promoting market economy management, we can better control the development direction of enterprises, especially in promoting the development of enterprise productivity, personnel reform, distribution system reform and other aspects, so as to carry out reasonable control and make production and operation activities more scientific.

Accuracy evaluation of the experimental model. The original data D is randomly divided into K portions, with each portion (K-1) selected as the training set and the remaining portion (red part) as the test set. Cross-validation was repeated K times, and the average value of K times accuracy was taken as the evaluation index of the final model. The fuzzy evaluation model is verified by K - fold cross-validation, and it is found to have good accuracy.

4.2 The Development of Smart Cities Brings Historical Changes to Corporate Performance Management

The new digital technology has brought historic changes to the development of smart cities. In the process of corporate performance management, through analysis of the above data, we can find that the new management system and intelligent management platform will give the development of enterprises to the development of enterprises. It brings new development potential and allows the transformation and development of enterprises. It is based on the integration and development of intelligent software and hardware technology, which has effectively improved the management level of enterprises and the level of productivity. By using digital tools to promote the establishment of an intelligent management platform for enterprises, so that the development and production ideas of enterprises have been effectively improved. In the process of integrating and intelligent development, it not only reflects the needs of an enterprise in adapting to the development of the times but also promotes the improvement of enterprise productivity, realizes digital transformation and development, and builds a new development concept (Luo *et al.*, 2015).

5. CONCLUSION

This article conducts a survey of the development status of smart cities and analyzes the actual situation of artificial intelligence technology in the development of various industries in the city, focusing on urban transportation, health prevention and control, medical construction, and the performance management of human production and living activities. A research was conducted. Explore the development of smart cities and promote the huge role of innovation in the concept of production in various industries. By using the fuzzy algorithm for model construction, analyzing and influencing factors evaluation in combination with the actual situation, reasonable monitoring of the level of intelligent development was achieved.

Through the above analysis and argument, the development of intelligent cities has been obtained, and the level of enterprise productivity and performance management level has been promoted. Enterprises need to build a more scientific management platform and intelligent production and operation model so that the company's production and operation activities and performance management models have been fully integrated, prompting artificial intelligence technology to improve the level of production performance management, make the development of enterprises more potential so that the development of the company has more potential, so that the development Production and operation activities are more in line with the development needs of the times, close to the actual needs of human production and life so that the degree of intelligence of the city can be steadily improved. The performance management level of enterprises is more scientific and efficient.

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