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Research Article

Exploring the Impact of Educational Informatization on Sustainable Development in Global Education Systems

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ARTICLE INFO	ABSTRACT
	Education informatization uses intelligent algorithms and information technology to develop educational resources, optimize the educational process, and establish a modern education concept. The global education system is the general term for the education system of different countries and regions. There are internal connections but also significant differences. Education informatization can reuse the educational resources of developed countries, improve the education level of developing countries, and realize the undifferentiated development of global education. The research on education informatization mainly stays at the theoretical level and lacks the optimization technology of the educational process, which limits the sustainable development of the global education system. Therefore, this paper proposes a global education system optimization method based on information technology, which classifies educational resources, concepts and processes in different regions and countries. Then, the system education is built through the B/S system framework, and the educational resources of different B/S layers are transmitted through the wireless transmission protocol to complete the construction of the global education system. Finally, the global education system is evaluated. The results show that the global education system optimization method proposed in this paper can improve the sustainability of educational resources, the optimization rate of educational resources is greater than 80%, the optimization accuracy of the educational process is greater than 90%, and the improvement rate of educational philosophy is greater than 80%., significantly higher than the previous network information platform. Therefore, this paper proposes that the wireless transmission protocol can support education informatization, promote the sustainable development of the global education system, promote the balance of educational resources in different countries and regions, and enhance the modern education concept. **Keywords:** Global Education System, B/S System Framework, Education Informatization, Sustainable Development.

INTRODUCTION

The Necessity of Continuous Development of Global Education Systems

Education is an essential means of human social development and is significant for promoting economic development and optimizing social structure. However, there are differences in educational resources, educational methods and concepts between developed, developing, and non-developing countries. The existence of such differences will inevitably increase the contradictions between countries, bring instability to different regions, and even global polarization. In order to alleviate the above contradictions, countries worldwide have strengthened ties in the field of education, continuously developed their educational resources, changed educational concepts and methods, and built a global education system. Currently, the global education system has the problem of insufficient resource development and a lack of optimization methods, and it is impossible to achieve a balance of educational resources in different regions. In order to solve this problem, some scholars have proposed a method of teaching informatization, integrating wireless transmission technology, transmission protocol and information management technology into the global education system. Among them, the wireless transmission protocol is a protocol that can realize the

standardization of information transmission, which can realize the information transmission between different platforms and belongs to the data processing means in education informatization. Wireless transmission technology can cross the limitations of wired networks, improve the efficiency of information transmission, and the accuracy of information transmission, and facilitate educators to transmit resources and ideas. Information management technology is a kind of data information technology that can share and transmit information. In information management technology, including S/C, B/C, and other frameworks to achieve effective management of information. Among them, B/C belongs to the client application framework; customers access the background server by installing APP software, which has the advantages of simple operation and good compatibility, and the upgrade of education databases in various countries will not affect the use of customers, which can significantly improve the operational efficiency of the global education system and lay an excellent software foundation. Therefore, education informatization can complete the digitization of educational resources in different countries and regions, and B/C, transmission protocol, and wireless transmission technology can support education informatization and promote the development of the global education system, which has theoretical and practical feasibility.

Advantages of the B/S System Framework

B/S system framework refers to the browser/server architecture, which is a widely used model in web application development (Bromley et al., 2023). The main feature of the B/S system framework is that the client uses the browser as the interface of the application (Burleson et al., 2023), and all business processing and data storage is done by the server (Class et al., 2023). The advantages of the B/S system framework are as follows:

(1) Strong Cross-platform

The B/S system framework is browser-based and does not require the installation of local client software, making the system cross-platform and portable (Coles & Helliwell, 2023), and convenient for users to access and use in different devices and operating systems.

(2) Strong Flexibility

The browser-side user interface of the B/S system framework can be designed and implemented through front-end technologies such as HTML (DeWitt & Sukhoverkhov, 2023), CSS and JS, and can be personalized and customized according to user needs.

(3) Easy Maintenance

The server-side business logic and data processing of the B/S system framework is done by the server and stored centrally in the database (Fodale et al., 2023), making the maintenance and management of the system easier and reducing the possibility of local errors.

(4) Easy to Expand

The B/S system framework uses the standard HTTP protocol and Web services to interact, which can be connected and integrated with other systems so that the system has good scalability and meets the needs of different users (Gower, Duggan, & Dantas, 2023).

The Role of the B/S System Framework for the Sustainable Impact of Global Education Systems

(1) Teaching Management

The B/S system framework can connect the education management system and teachers and students through the network (Granados-Sánchez, 2023), and the teaching management department can manage and monitor the course plan, student course evaluation, examination management and other activities, which is convenient for the unified management of education and teaching activities (Hammad et al., 2023).

(2) Teaching Resources

The B/S system framework can centrally store teaching resources and provide a platform for teachers to upload and manage teaching resources (Kalbarczyk et al., 2023). Students can watch, download and learn relevant course teaching resources through the Internet, improving students' learning effect.

(3) Distance Education

The B/S system framework provides students and teachers with flexible learning methods and pathways, and students and teachers can independently choose the way and time of learning according to their actual situation (Luaces et al., 2023), especially in distance education. The advantages of the B/S system framework are more prominent.

(4) Personalized Education

The B/S system framework can provide personalized teaching services for different students, and after data analysis and mining (Marginson & Xu, 2023), provide corresponding teaching resources and learning suggestions according to students' academic performance and learning habits and improve students' learning effects.

Research Status of Global Education Systems

Cross-layer wireless transmission is the data transmission between multiple network interruptions, which enhances the speed and stability of signal transmission (Prescott et al., 2023), realizes the processing of massive data, and can significantly improve the effective transmission of different information data (Rallo et al., 2023). However, when carrying out remote network technology, complex data problems and frequent interference often affect the information analysis of the sustainable development of the global education system (Rosi & Obrecht, 2023). To this end, this paper integrates remote network technology with B/S network architecture, analyzes the information of different cross-layer global education systems (Saftner & Ayebare, 2023), extracts key values from them, and better integrates them. Cross-layer wireless transmission belongs to a kind of information transmission mode based on remote communication mode, which can realize cross-layer transmission, provide multi-terminal communication requirements for information

transmission, reduce transmission loss rate, realize the efficient use of communication resources, and stabilize communication transmission. Therefore, remote network technology provides basic conditions for the sustainable development of the global education system, and the improvement rate of B/S network architecture is shown in **Table 1**.

Table 1. Indicators of Education Informatization in Global Education Systems (in %)

Index	Performance	Error
Transfer Efficiency	84.66	97.65
Cross-layer Point Switching	80.81	90.64
Transmission Distance	72.37	66.06
Transmission Volume	90.42	85.96

The wireless transmission process of the global education system is shown in **Figure 1**.
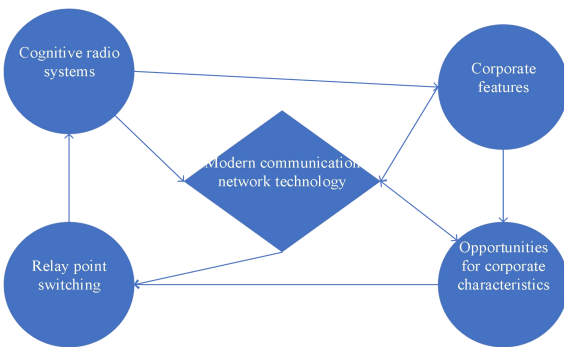

Figure 1. Data Disaggregation Process for Sustainable Development of Global Education Systems

The B/S network architecture has the advantages of a high terminal utilization rate and quantitative transmission (Sahlberg, 2023), which can realize the transmission of information and education informatization in the sustainable development of the global education system and combined with remote network technology to simplify the identification process of information data Effective dissemination of information data. At the same time, the cultural connotation and information of the sustainable development of the global education system are analyzed, and the effect and data integrity of the B/S network architecture are verified. Experiments show that remote network technology can improve the information data recognition rate of the sustainable development of the global education system and simplify the amount of education information and the complexity of cross-layer data. The B/S network architecture and remote network technology are applied to the information analysis of the global education system, and the similarities and differences in the information transmission of the education system in different regions are compared. In the process of sustainable development education informatization in the global

education system, it is necessary to pay attention to the transmission effect, so it is necessary to select the cross-layer to achieve maximum transmission efficiency. The cross-layer point selection process is shown in **Table 2**.

Table 2. Cross-level Selection of Educational Information in the Global Education System

Department of Global Education	Server	Cross-layer Point Selection
Education in European and American Countries	6	7
Education in Asian Countries	8	7
Education in South American Countries	8	6
Other Regions	12	10

As can be seen from the description in **Table 2**, the global education system can select servers and cross-layer points according to the amount of data transmitted. Although the data on sustainable development of the global education system can be quickly transmitted in different regions, it is not possible to determine, classify, mine and eliminate education indicators, which is not conducive to the summary of education informatization, as well as the adjustment of relevant parameters, so it is necessary to assist with remote network technology.

RELATED CONCEPTS

Informatization of Education

Information education is to use modern means such as communication, intelligent algorithms and information management technology to deeply develop educational resources, optimize the educational process, realize digitalization and informationization of education, and facilitate the call and integration of educational resources (Schutte & Milley, 2023) and lay the foundation for the global education system. The development of education informatization is inseparable from the popularization of computers and the Internet, and computers were initially only a large-scale tool (Simon, Vieira, & Jecu, 2023), which only a few computing experts could operate. At the end of the 20th century, due to the continuous improvement of computer performance and the emergence of the Internet, computers entered the civilian market, popularizing digital cameras, MP3, mobile phones and other digital devices, making education information easier to achieve. At the same time, after 2000, China entered the IT era, and digital products continued to emerge, laying a good foundation for the development of education informatization. At present, the promotion of education informatization in the global education system has received a lot of attention and attention, mainly in several aspects:

(1) Construction of Educational Infrastructure

Educational infrastructure includes educational resources, teaching conditions, teachers, students and other hardware

resources, which are the prerequisite for educational informationization and the means of education and teaching. In the development of education informatization, network infrastructure construction is indispensable. Nowadays, countries worldwide have continuously increased investment in school infrastructure construction, accelerated network infrastructure construction, and created good conditions for promoting education information.

(2) The Scope of the Application is Expanded

The scope of education includes two contents: the depth of education, the region of education, and the time of education. The scope of education is not only the influence degree of education but also the actual conditions, function contents, etc. The application scope of education informatization has expanded from the initial digital education hardware and software to high-tech fields such as multimedia teaching, online education, distance education, and virtual simulation experiments (Stigant et al., 2023). Moreover, emerging education methods have been widely used in many places, providing new approaches to education and teaching activities.

(3) Effect Evaluation

The evaluation of educational effect mainly refers to the difference between the results of educational informatization and traditional educational methods and the influence of educational informationization on educational indicators, including educational resources, concepts and processes. Educational effect evaluation is the comprehensive embodiment of educational optimization and the implementation goal of various educational methods. The promotion of education informatization cannot only stay at the macro level but its effect must be scientifically evaluated. An educational effect evaluation agency has also been established to scientifically evaluate and count the effects of education informatization to ensure the rational development of education informatization (Strong et al., 2023).

Global Education Informatization System

The global education system is a cross-regional, regional and national education system constructed to balance the educational relations among different regions, which mainly includes educational philosophy, educational content, educational structure, etc. At the same time, the global education system can better develop educational resources and give full play to the advantages of educational resources in different regions. The premise of the global education system is the informatization of educational resources, modern communication means and resource management methods. With the development of global informatization, education informatization has become an important part of education reform. The Global Education Informatization System is a comprehensive education informatization platform established to promote the development of education informatization. The functions of the global education information system mainly cover several aspects:

(1)Teaching Management

Teaching management is one of the primary functions of the global education information system. Schools and institutions can use this function to manage and monitor activities such as teaching programs, student course evaluation, attendance, test management, etc (Tolochko et al., 2023).

(2)Teaching Resources

Teaching resources are an important part of education informatization. The global education information system can realize the sharing and utilization of various teaching resources. For example, teachers can upload teaching resources that students can view, download, and learn from online.

(3)Teaching Assessment

Teaching assessment is an indispensable and important part of educational activities. The Global Education Information System (GIS) can evaluate students and curricula, and the results can be used as important indicators of teaching quality. At the same time, students can also conduct self-assessments to help them better understand and master what they have learned.

B/S System Framework

The full name of B/S is Browser/Server, that is, Browser/Server structure, which has the advantages of real-time convenience and simple operation (Wieczorek et al., 2023), and is an effective framework across regions and time at present. The B/S system framework refers to the Browser/Server system framework, which is a browser- and server-based application development model. It is one of the mainstream architectures for modern web applications and has been widely used in various web development projects.

(1) Browser

The browser is the interaction terminal between the user and the application, which communicates with the server through the HTTP protocol to obtain and display the web page's content.

(2) Server

The server is the core part of the B/S system framework, which processes the request made by the browser, performs the corresponding data processing and business logic processing, and generates a response result to return to the browser.

(3) Database

The database is an integral part of storing application data, which can store user information, business data, etc., and plays a significant role in the B/S system.

(4) Web Server

A web server is a shared server software that handles HTTP requests, generates the content of a dynamic page into a static HTML page, and then sends it to the browser. Familiar web servers are Apache, Nginx, etc.

(5) Application Server

An application server is a server that runs applications,

including business logic components, data access components, etc., which can call corresponding business logic components according to requests for data processing and other operations.

Different Cross-level Education Information Judgments of the Global Education System

The judgment of cross-regional educational resources is mainly to judge the optimization degree of educational resources, ideas, and processes. The determination of education indicators mainly starts from educational content, teaching plans, and education planning, and remote network technology mines educational information reduces educational information indicators and adds educational indicators and key indicators to different cross-layer information. The combination of education index determination and remote network technology can carry out massive transmission of education information data and reduce the amount of network transmission. Remote network technology can match the frequency band, transmission point, and transmission amount of the global education system and education information data, and the specific transmission process is as follows.

Educational information data collection: education data is o_i , content information is y_i , education planning information is z_i , education informatization calculation function is $Ic(o_i)$, the importance of information is k_i , and educational information data collection is shown in Equation (1):

$$Ic(o_i) = k_i \cdot \sum o_i \leftrightarrow y_i \times z_i \tag{1}$$

The process of education informatization is as follows:

Where {x,y,z = int;

set x,y,z = 1;

while{x =y and z:100}

do{put x,y,z;

open =SQL;

Other load(data)}}

From the above programming code, the education indicators for the sustainable development of the global education system can be determined, and the collaborative

wireless mode selection can be made according to the information to improve the transmission efficiency of information.

Informatization of information education indicators: indicator informatization degree function is $II(o)$, informatization degree calculation function is $Com(o)$, information education index classification is $Fl(o)$, the result of remote network technology is U , the informatization process is shown in Formula (2):

$$Com(o) = \frac{Fl(o) \rightarrow II(o)}{U} \tag{2}$$

Wireless remote control information transmission: the wireless transmission node is x_i , the transmission function of the global node is $pf(x)$, the conversion function of data transmission is $cr(x)$, and the educational information processing process in the global education system is shown in Equation (3):

$$cr(x) = pf(x) \leftrightarrows x_i \tag{3}$$

THE PROCESS OF TRANSMITTING EDUCATIONAL INFORMATION BASED ON REMOTE NETWORK TECHNOLOGY

Networked Processing of Educational Information

The global education system can realize the transmission of education information across regions and promote the sustainable development of education. Moreover, the educational content of different regions shows cross-changes, so it is necessary to analyze the educational information to determine the leading educational content and the correlation between the educational content. In addition, the occupation of educational resources and cross-layer transmission impact the global education system, so it is necessary to eliminate irrelevant information data and realize the simplified processing of information data. In order to carry out education informatization more reasonably, cross-layer transmission needs to be selected, and the processing results are shown in **Table 3**.

Table 3. Cross-layer Transmission Rates of the Global Education System

Transmission of Educational Content / The Type of Data	Number of Spans	Teaching Materials	Teaching Plan	Educational Planning	Utilization Rate
European and American Institutional Data	4	72.18	72.95	76.17	95.28
	3	62.23	89.61	94.11	84.06
	5	92.53	69.86	79.93	88.15
	4	96.89	88.51	80.57	79.28
	2	68.22	98.51	99.35	91.01
Asian Institutional Data	1	77.80	82.81	93.34	78.42
	3	86.74	68.93	83.67	72.94
	4	92.78	94.53	75.60	99.94

Transmission of Educational Content / The Type of Data	Number of Spans	Teaching Materials	Teaching Plan	Educational Planning	Utilization Rate
	7	76.68	70.70	73.67	77.89
	3	93.39	73.98	61.94	67.81
South American Education Data	8	94.12	66.50	64.44	60.42
	2	91.79	89.10	85.62	75.64
	2	98.02	65.27	71.27	77.93
	1	69.62	96.87	69.77	67.00
Overall Results	3	72.18	72.95	76.17	95.28

Note: Number of spans refers to the number of countries across which educational resources in this region span.

In order to better study the sustainability of the global education system, we randomly visited the education platforms in Europe, America, Asia, South America and other countries, visited the same resources in the platforms, and recorded the countries where the resources belong and the times when the resources are reprinted. Then, compare the differences between the initial query resources and the existing resources in the server, compare the differences of the query results of the initial query resources in different platforms, and finally form the final access results. The cross-layer education information in **Table 3** shows that the data transmission integrity of education management, teaching methods, reward and punishment methods, and educational concepts is good, indicating that the operation of each collaborative terminal is good.

Matrix Processing of Education Informatization Data

Still sampling the random sampling results, visiting the South American education platform, and numbering the servers to which the platform belongs, respectively, as 1 ~ 9. Then, access the platform randomly, record the difference between the initial query resources in the platform and the resources in the server, and output the corresponding results. In order to improve the accuracy of calculation, ten tests are carried out on the platform, the test matrix is constructed, and the eigenvalues of the matrix are calculated. If the eigenvalue of the matrix is 1, it means that the platform does not meet the requirements. Otherwise, the platform results are better. Finally, the test matrix that meets the requirements is output, and the final result is shown in **Table 4**.

Table 4. South American Planning Matrix for Informatization of Education

Test Matrix	Educational Management	Teaching Methods	Educational Content	Educational Philosophy
3, 3	86.22	96.20	91.29	81.36
2, 6	70.46	75.23	60.12	60.94
2, 8	98.07	95.48	83.34	82.33
2, 4	75.42	92.17	80.53	86.99
4, 3	79.44	80.43	67.31	80.62
8, 6	78.99	76.18	76.62	94.72
8, 2	72.72	82.68	97.43	96.78
3, 9	71.54	71.91	94.66	98.29
1, 8	73.92	63.65	84.88	68.65
3, 5	71.29	75.39	88.47	90.25
5, 5	96.42	62.86	76.65	71.35
2, 9	60.84	77.22	76.57	86.43
9, 2	70.72	92.20	83.40	78.15
1, 1	86.70	65.37	60.90	62.49
Normal Results	66.23	69.20	87.80	89.70

Note: Normal results are the average values from North America, which are used to facilitate the comparison of results.

As can be seen from the data in **Table 4**, the identification matrix information value of the remote network technology < 1 indicates that there are information values in the matrix. It also indirectly shows that after remote network technology processing, the education information value exists, and there is no abnormal information value or false information value, which meets the transmission requirements of B/S network system education planning. There are great differences in the informatization of sustainable development education in the global education system, and the wireless data transmission > 0.042 seconds in different schools, indicating that the complexity of education informatization data and

the proportion of natural language are large, and the complexity of transmitting data needs to be simplified. In addition, the information data processing capacity of remote network technology is > 80%, while the transmission volume of education information data is only 25%, further showing that the education information data should be simplified.

THE CASE OF EDUCATION INFORMATIZATION BASED ON THE GLOBAL EDUCATION SYSTEM

Conditions for the Implementation of Education Informatization

Based on the global education system and combined with wireless network technology, this paper analyzes the educational content, lesson plans, and planning aspects, and the specific conditions are shown in **Table 5**.

Table 5. Hardware Conditions for Informatization of Global Education Systems

Parameter	Condition	Constraints
Transfer Rate	> 10Gpisc	Stability> 80%, channel occupancy less than 50%.

Parameter	Condition	Constraints
Educational Data Format	Natural language, non-natural language.	Recognizable
Transmission Volume	> 50TG	1G per transmission
Informatization	> 80%	Standardized treatment of linear equations
Normality	71.44	97.74
Standardish	92.78	99.99

The results in **Figure 5** show that the global education system can promote the sustainable development of education informatization and will restrict the channel, transmission volume, and transmission information to ensure the effectiveness of information transmission during the test. The specific results are shown in **Table 6**.

Table 6. Data Test Results of Education Informatization

Parameter	Index	Test Metrics	Effectiveness
Natural Language	The Degree of Standardization	6	73.17
	Viability	8	62.98
Non-natural Language	The Degree of Simplification	7	80.51
	The Amount of Mapping	9	77.73
Difference	9.688	6.277	2.197
Concentration Point	98.29	73.46	77.97
Standard Rate	60.90	76.93	60.31

The Degree of Educational Informatization in the Global Education System

Information transformation is an important measure implemented by the global education system, and it is necessary to deeply analyze the education data in the global education system and the specific transformation situation. The specific transformation results are shown in **Table 7**.

Table 7. The Degree of Educational Informatization in the Global Education System

Aspect	Index	The Degree of Informatization
Informatization in European and American Countries	Educational Planning	61.12
	Teaching Plan	73.75
	Teaching Content	94.49
	Vocational Education	88.56
	Professional Training	70.83
	Knowledge Improvement	88.38
Informatization of Asian Countries	Short-term Planning	74.89
	Long-term Planning	91.52
	Comprehensive Planning	75.55
	Professional Planning	69.72
	Overall Planning	75.61
Number of Spans		6
Maximum		11.80
Maximum Range of Change		0.68
The Maximum Magnitude of Change		0.26

The results of Informatization in **Table 7** show that the degree of informatization is greater than 50%, indicating that the global education system can meet the actual requirements of education informatization. The change process of education informatization in the global education system is shown in **Figure 2**.
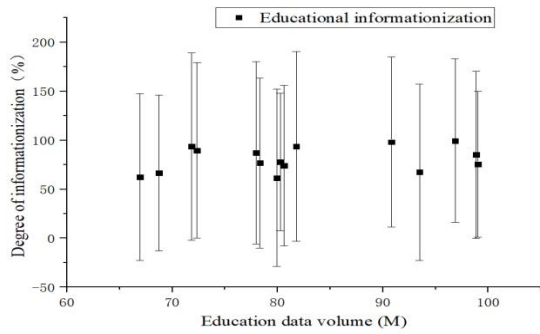
Figure 2. The Process of Education Informatization for Sustainable Development of the Global Education System

It can be seen from **Figure 2** that the method proposed in this paper has a high degree of information for the sustainable development of the global education system. The data information degree can reach more than 70% in the

process of sustainable development of the global education system, and the data continues to increase. The reasons for the above problems are mainly the classification of remote network technology, the simplification of the sustainable development transmission volume of the global education system in the opening ceremony, and the education planning of the B/S network system to improve the data transmission rate, reduce the occupancy rate of servers, and realize the global education system real-time reproduction.

Information Conversion Rate in the Global Education System

The information conversion rate of sustainable development of the global education system will impact lesson plans, teaching concepts, data transmission, port compatibility, wireless transmission rate, and system occupancy, so reduce the frequency of the parameters. The specific results are shown in **Table 8**.

Table 8. Information Conversion Rate in the Global Education System

Index	Educational Content	Teaching Plan	Port Compatibility	Wireless Transmission Rate	System Occupancy
European and American Information	Educational Lesson Plans	91.79	89.10	85.62	75.64
	Teaching Idea	98.02	65.27	71.27	77.93
Asia Information	Campus Culture	69.62	96.87	69.77	67.00
	Teachers and Students	95.61	77.95	96.44	87.96
Discrete Point = 64.45					
Eigenvalue = 94.18					
Number of Parameters = 85.62					
Cross-regional Rate = 71.27					

According to Equation (3), the collected data are standardized and transformed, the non-numerical attributes of the data are eliminated, the differences between the data are shortened, and the numerical values are mapped to the two-dimensional plane to complete the standardized data processing. At the same time, the difference between the initial data amount and the eliminated data amount is calculated to obtain the data conversion rate. The results in **Table 8** show that the data conversion rate is over 60%,

indicating that the data conversion effect is better. Among them, the coincidence rate of mapping direction of data is 64.45%, the eigenvalue of transformed data is 94.18%, the proportion of transformed parameters is 85.62%, and the cross-regional rate is 71.27%. The overall results meet the calculation requirements, indicating that the processed research data is good and can provide support for later evaluation and calculation.The changes in the conversion rate of information in **Table 8** are shown in **Figure 3**.
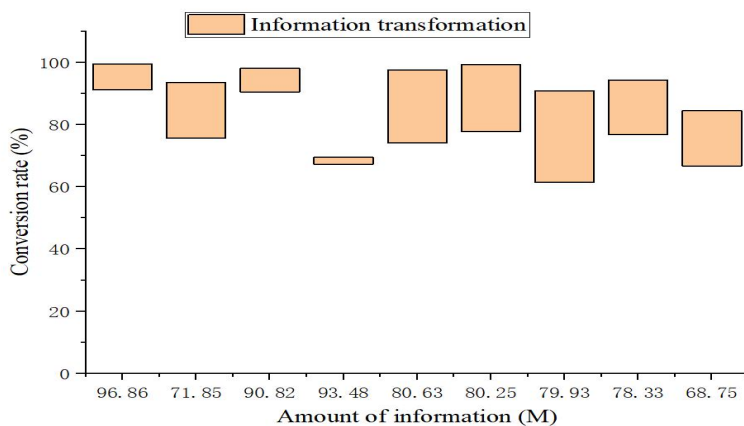

Figure 3. Changes in Information Translation for Sustainable Development of Global Education Systems

It can be seen from **Figure 3** that under different information conversion rates, the standard information and education informatization of the sustainable development of the global education system haS not changed significantly, indicating that the change in the sustainable development of the global education system will show that the impact of educational content is negligible. In addition, educational information changes have not impacted the global education system, further proving that remote network technology can transform teaching information. The reason is that remote network technology can reduce the error rate of transmission, shorten the analysis time of teaching information, and increase the amount of single data transmission through data encryption, decryption, and matrix conversion.

The Effectiveness of Cross-level Teaching in the Global Education System

The cross-level teaching effect is the basis for the sustainable development of the global education system, and it is necessary to sample and transform education information at multiple transmission points, record the transformation results, and compare them, and the specific results are shown in **Figure 4**.
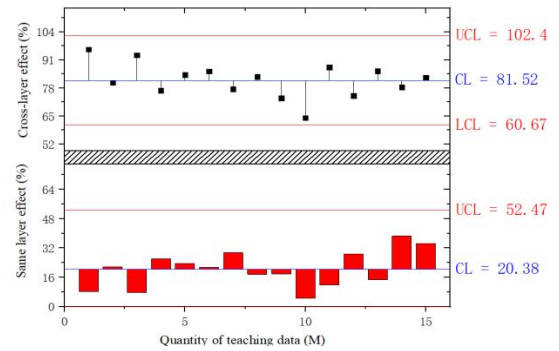

Figure 4. The Effectiveness of Cross-level Teaching in the Global Education System

It can be seen from **Figure 4** that cross-layer data is scattered, and the teaching effect is relatively concentrated, UCL=52.47, CL=20.38. This result shows that the difference between the cross-level teaching effect and the amount of information is small (P=0.706), indicating that cross-level teaching can meet the actual transmission requirements. In the transmission process, cross-layer teaching is scattered on both sides (12.3, -17.3) because the data structure in the global education system is complex and needs to be transformed, which makes it more difficult to calculate iteratively. The above data show that remote network technology, combined with the global education system, can effectively plan educational content and improve the capacity for sustainable development. Summarizing the data in **Figure 4**, the following calculation results are obtained, as shown in **Table 9**.

Table 9. The Effectiveness of Cross-level Teaching in the Global Education System

Scope of Education	Parameter	Cross-tier Resource Occupancy	Cross-level Teaching Effect	Grading Across Tiers
Developed Country Range	Educational Content Crosses Layers	86.01	72.53	81.29
	Lesson Plans Cross Layers	81.73	83.53	78.47
	Professional Cross-layer	61.11	99.80	98.34
Development of National Scope	Educational Content Crosses Layers	81.82	62.45	86.56
	Lesson Plans cross Layers	67.73	89.84	81.94
	Professional Cross-layer	86.01	72.53	81.29
Comprehensive Results		81.73	83.53	78.47
Processing Frequency		61.11	99.80	98.34
Processing Volume		81.82	62.45	86.56

The results of fixed transmission points and random transmission points were transformed, and it was found that in the whole sampling transformation, the educational content cross-layer, the teaching plan cross-layer and the professional cross-layer, the probability of data reception was greater than 60% (86.01, 72.53, 81.29), indicating that in different sampling results (81.73, 81.82, 62.4), the global education system can realize education informatization, further explain that remote wireless control technology can transmit data in real-time, and increase the anti-interference ability of educational information, and provide wireless network technical support for sustainable development.

The Accuracy of Education Information for Sustainable Development in Global Education Systems

The diversity and sustainability of sustainable education and the classification of different educational contents require high-accuracy wireless network control technology. Therefore, the results of accurately judging the sustainable development of the global education system are shown in **Figure 5**.
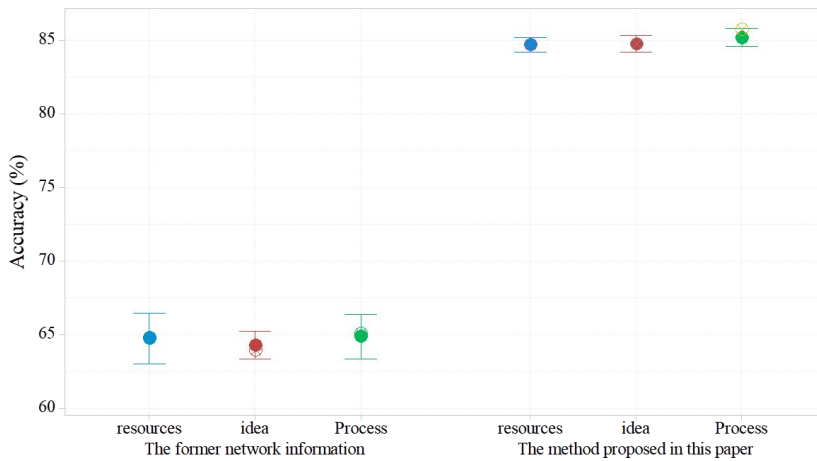
Figure 5. Accuracy of Education Information for Sustainable Development in Global Education Systems

It can be seen from **Figure 5** that the transmission accuracy of remote network technology is higher than 90%，Focus on 80%, 79%, 63%, and the transmission deviation of the sustainable development of education informatization in the global education system is small (10%, 25%, 33%), indicating that long-range wireless data planning is sustainable development providing technical support. The overall results are shown in **Table 10**.

Table 10. Accuracy of Education Information for Sustainable Development in Global Education Systems

Informatization Ratio	Education in Asia		Education	
	Teaching Content	Teaching Structure	Teaching Content	Teaching Structure
20	96.86	99.45	91.22	83.59
30	71.85	93.51	75.69	95.45
40	90.82	98.12	90.54	86.69
50	93.48	67.31	69.49	89.91
60	80.63	74.08	97.52	81.91
70	80.25	77.76	99.21	70.07
80	79.93	61.55	90.90	90.41
90	78.33	76.76	94.32	86.73
100	68.75	66.61	84.47	79.61
Overall Results	66.95	62.48	63.13	85.16
Deviation	81.77	93.51	87.36	96.80
Eigenvalue	72.36	89.59	61.00	89.48
Efficient	77.98	87.01	92.60	93.00

It can be seen from the transformation process of **Figure 9** that the transformation of education informatization for sustainable development in the global education system is relatively high, and the transmission rate of remote wireless data planning is greater than 80%, mainly due to the extraction of education information by remote network technology, reduce the complexity of education data, and further prove that long-range wireless data planning transmission can meet practical requirements. Moreover, there is no abnormal interference in the cross-layer data flow, indicating that the transmission effect of sustainable development information in the global education system is ideal.

CONCLUSION

The research results show that in the research of sustainable development of the global education system, the integration of wireless transmission protocol and B/S system framework technology can realize the informatization of educational resources, increase the data conversion rate to 60%, and optimize the educational process, with the optimization rate exceeding 60%. Among them, the wireless transmission protocol has achieved good results in multi-angle mapping and multi-index evaluation of educational resources, laying a foundation for constructing a global education system. According to the continuous research of the global education system, wireless transmission protocol and B/S system framework can improve the utilization rate of resources teaching philosophy and optimize the education process. The three indicators are better than the previous information platform, and the overall result is better. Therefore, wireless transmission protocol and B/S system framework can realize education informationization and promote the sustainable development of the global education system. However, there are still some deficiencies in this study, mainly reflected in the collection of teaching information and the transformation process of educational information in different countries. In addition, some educational information is not published on the Internet, so it is relatively complex to collect information. In the future,

we will focus on information investigation and purchase corresponding databases to compensate for the above shortcomings.

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