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Empirical Efficiency Modeling of Online + Offline Teaching Evaluation Mode of Courses Based on 6G Real-Time Image Transmission Architecture

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Abstract:Putting forward the requirements of the 6G-oriented space-earth integrated information network architecture, and put forward a flexible and reconfigurable space-earth integrated information network architecture on this basis. On the basis of the research, it puts forward the countermeasures and suggestions to improve the evaluation mode of college English online teaching. From the aspects of curriculum structure, curriculum implementation, evaluation feedback, teacher team construction and talent training, the innovative teaching mode of "online micro-course" integrated into mathematical modeling courses is studied. A set of experimental teaching plans based on small modeling projects and corresponding teaching methods are proposed. The system of learning evaluation, and the effect of curriculum reform was analyzed through empirical teaching.

Keywords: Empirical Efficiency Modeling, Online + Offline Teaching Evaluation, 6G， Real-Time Image Transmission

1. INTRODUCTION

The data source of this design is the TV signal of PAL standard, and the data format is YUV (4:2:2) format. [1] This design uses FPGA as the platform to convert the original TV signal data into RGB format video signal, and increase the image resolution from 720x576 to 1024x768. In GDI, the device context (DC) contains specific display devices [2].

The 6G network will be an open and autonomous architecture [5], and the security risk of attacking from the inside will be a necessary factor for security considerations. Network/subnet security risk protection requirements. Image acquisition and transmission technology is an important technical branch of the entire machine vision technology [6]. The realization of many application scenarios is supported by image acquisition and transmission technology. For example, the rear personnel in the military field use UAVs to scout the front line, and the monitoring room in the industrial field. Monitoring of production lines, video conference calls in daily life, etc. [7]

In this paper, the area array CCD OV7670 is used as the image sensor, which can transmit a variety of data acquisition modes. It should be combined with the 19325 TFT screen for real-time image display [8]. The basic storage unit of the data memory of this TFT screen is 16 bits, so the RGB565 image is used. data format for processing. The relevant knowledge of important modules is introduced in detail, and the terminal for wireless image information exchange in local area network is designed [10].

The system is divided into a server side and multiple clients. Each terminal establishes a communication network through a wireless network card. The server side collects image data through a camera, compresses and encodes it and broadcasts it to other client computers after scraping [11]. The first step of programming with GDI is to obtain the handle (hDC) of the current device description table, and then use the handle as a parameter to call the API function provided by GDI [12]. Sometimes Xlib is directly defaulted and simplified according to the actual application of the platform [13]. They provide a set of more convenient and practical components, thus reducing the difficulty of users developing software by themselves and improving the development efficiency [14].

In 2020, there are 1470 colleges/campus from all over the country [14], the United States, the United Kingdom, and Malaysia. Some applied statistics courses for engineering and economics majors in the early years were mainly to introduce software operations, but the explanation of the corresponding theory was not enough. Students often only use statistical software to mechanically process raw data [15], but do not use statistical thinking to analyze and solve problems. Practice has proved that the online teaching mode of college English has gradually been widely recognized, and the direction and goal of the teaching reform of college English courses aimed at cultivating students' English learning and sustainable development ability are becoming more and more clear [16].

The vision of future 6G is ubiquitous, wireless, and intelligent, and can provide ubiquitous wireless connectivity with seamless coverage and context-aware intelligent services and applications. In terms of network architecture, 6G will break through the limitations of terrestrial networks and realize terrestrial [17]. Figure 1 shows the positional relationship diagram of Tina in the process of program development. Meet the XGA standard. The design can be divided into FIFO module, dual-port RAM control module, image structure conversion module and color space conversion module [18].

he dual-port RAM selected by the design must be able to store more than two frames of images to ensure the completion of buffering. The parameter token is ULONG-PTR, which is the address of the storage unit, which records the mark of the use of GDI+ this time. After the initialization work is completed, the initialization The function in which it returns the entry token to the user for later use when closing GDI+.

2. THE PROPOSED METHODOLOGY

2.1 The 6G Real-Time Image Transmission Architecture

The 6G security layer will be deeply integrated with the network's basic resource layer, network capability layer, and service layer to provide its own security assurance and application security services for the 6G network. , formulating security strategies, and completing security resource scheduling are all new problems and challenges. On the other hand, affected by the climate, newly harvested crops need to be quickly cleaned and then dried and stored, otherwise the processing quality and selling price of the crops will be affected later.

The application of the cleaning machine has greatly reduced the harm caused by these problems. Since the STM32F4 series single-chip microcomputer is a new type of single-chip microcomputer using the ST company's deletion architecture, the deletion-type single-chip microcomputer adopts the object-oriented programming method, which makes the technical workers It is easier to get started, it changes our thinking about single-chip control, and we can no longer understand the various modules of single-chip microcomputer in depth.

The evolution of mobile communication technology and network architecture, along with the growth of 2G/3G/4G/5G mobile communication network security mechanisms, under the development trend of high integration of digital technology (DT) and communication technology (CT) The network topology is highly dynamic due to the high-speed movement of space-based and space-based network nodes, the transmission delay of different layers of the network varies greatly, and the performance of the network communication link varies greatly. This paper conducts in-depth research on the endogenous security requirements and architecture of the 6G network, and proposes a 6G network. The network endogenous security architecture and operation mechanism are demonstrated through deduction examples.

This paper includes 5 parts: one is to analyze the new security requirements faced by 6G networks, and to analyze the shortcomings of existing security means; the other is to combine 6G network architecture and security requirements, at the beginning of 5G network research, the mobile communication network is given customization. However, as far as the current 3GPP international standard formulation is concerned, there is still a certain gap in the ability to customize and personalize privacy protection. The integrated information network of space and earth should have programmability, and network resources should have elastic scalability, realizing the characteristics of flexible control, integration and evolution, and flexibility and customization of the network, which facilitates the rapid deployment and assurance of networks and services.

2.2 The Online + Offline Teaching Evaluation Model

In terms of trust model, the ternary trust model of users, devices, and networks has been transformed into a new trust model with trust assessment capabilities and a zero-trust architecture. Through the endogenous elastic and scalable architecture, as well as through software-defined networking, virtualization and other technologies, the integrated information network of the sky and the earth builds a flexible and efficient network capability resource pool that can be accessed on demand. As the center, TWith the continuous development of science and technology, people have more and more requirements for image types and quality. Therefore, the original image is combined with the computer to produce a variety of digital image formats to meet people's needs for different application objects and running on different computer systems.

The "College English Course Teaching Requirements" When the dual-port RAM is filled with one frame of image data from one end, the Before writing the next frame of data, start network technology to college English teaching, Cai Jigang et al. already wrote an article and proposed that in this model of classroom, the teacher's role is no longer the "professor" and "indoctrination" of mathematics in the traditional classroom teaching model. There are many modeling methods, reading the first frame of data from the other end; after the second frame is full, read the second frame until the data of the first frame is completely covered by the data of the third frame, time series method, grey theory method, modern optimization algorithm (tabu search algorithm, simulated annealing algorithm) , Various methods in genetic algorithm statistics such as regression analysis, multivariate statistics, random process, time series, statistical calculation, Bayesian statistics, etc., their contents are not separated from each other, but there are many intersections.

2.3 The Intelligent Fusion of Vocational Education Image Carriers

The oral examination part reflects the content and method of summative evaluation. Many students rarely or hardly speak actively in oral class, and do not actively participate in classroom activities. Online distance learning based on Rain Classroom and Tencent Conference fully reflects the students Teachers are responsible for integrating the logical relationship of modeling theoretical knowledge and effectively designing teaching content. Students can choose the time, space, and method of online learning according to their own conditions. Instead of actively exploring to obtain their own personalization Answer. Students who progress slowly or temporarily encounter bottlenecks in learning are more inclined to gradually lose the habit of expressing their confidence and thinking independently due to their backwardness in grades.

3. CONCLUSIONS

In order to meet the ever-expanding needs of 6G services and deployment scenarios, building a converged information network that integrates space and earth has become an important feature of the 6G network. The integrated information network architecture of heaven and earth should have the characteristics of dynamic reconfiguration and form high efficiency. Make full use of shared high-quality teaching resources, build a new hybrid teaching paradigm that integrates open micro-courses into mathematical modeling courses, and implement small classes before the mathematical modeling competition. At the same time as the "special seminar" teaching, a real-time evaluation and feedback system is constructed throughout the whole process, and a teaching situation of teacher comprehension, teacher-student interaction and student experience is created. The diversified evaluation model of generative college English courses obtained in the research group still needs to be further explored and verified by the teachers of the research group.

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