

Dynamic Network and Virtual Broadcasting System Construction for News Dissemination Based on An Intelligent Multi-Dimensional Signal Recognition Processor

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Abstract: An intelligent method for reverse extraction of sensor array input signals based on least squares support vector machine (LS-SVM) is proposed. The method is based on structural risk minimization. It can approximate any complex nonlinear relationship and has strong generalization ability. Video Resources have become an important basis for cultural construction in various industries. With the change of people's spiritual needs, the traditional studio construction method has been unable to meet people's needs for video content at this stage. This article will focus on the construction principles and construction methods of efficient virtual studios in the era of convergent media and apply them to major scenarios in colleges and universities to meet the needs of college education informatization and education and teaching. This research can provide a reference for the construction of virtual studios in colleges and universities.

Keywords: Dynamic Network, Virtual Broadcasting System, News Dissemination, Signal Recognition Processor

1. INTRODUCTION

Multidimensional sensor arrays are an important part of robotic artificial skin. In order to fully sense multiple external signals at the same time, each array is divided into multiple units, each unit contains multiple sensors with different sensitive characteristics, and measures signals such as pressure and temperature respectively [1]. The rapid development of technology makes it possible to use today's advanced technology to develop a safety monitoring system. Biometrics have strong self-stability and individual differences, making them an ideal method for current identity verification [2].

In recent years, with the rapid development of tunnel engineering construction in my country, tunnel quality and safety problems caused by tunnel diseases are becoming more and more common [3]. Therefore, during the construction and operation of tunnels, the detection, control, and governance of various tunnel diseases have begun to receive more extensive attention [4]. Around these problems, this paper takes the literature method and logical analysis method as the main research methods. The subject construction issues of the study were analyzed and considered. Sports journalism and communication education lays the foundation for the construction of the discipline of sports journalism and communication [5].

Discipline construction and professional education are not the same thing. The rapid development of network technology has brought a profound and long-lasting influence on the current development of journalism [6]. Because of this, online news has been able to rise and develop in an all-round way, and online journalism has gradually developed into a new key discipline with the youngest and most potential. Simply put, Internet journalism is a science that studies the basic laws of development of Internet news [7]. The rise of the Internet, the

development and widespread popularization of information technology have promoted the gradual transition of traditional media and new media from competition to integration [8].

From a long-term perspective, it is an inevitable trend for traditional media to expand in the direction of integrated media. With the help of big data and the Internet of Things, video resources occupy a top priority in various types of teaching resources in colleges and universities [9]. The studio construction method can no longer meet the needs of colleges and universities for the construction of video resources at this stage. At the same time. Obviously, the output of each sensor is affected by multiple signals such as pressure and temperature at the same time, and there is a complex nonlinear relationship between each actual signal and the output of the sensor [10].

How to perform reverse parallel extraction of all actual signals according to the output of each sensor. Among many biological features, face recognition is the most convenient, direct, and friendly method for identity recognition in security monitoring systems [11]. The background of the traditional single-model access control system requires a PC to run all the year round, which is used to store face feature vectors and perform feature comparison. The non-destructive testing methods of tunnel diseases represented by wave method and geological radar method are gradually replacing the original drilling detection methods [12].

Entering the 21st century, various sports colleges and universities have set up the sports journalism direction of journalism, and my country's sports journalism and communication education has begun to develop by leaps and bounds [13]. Up to now, there are 12 sports undergraduate colleges and universities that offer journalism majors, and some sports colleges also offer advertising, network and new media, radio and television director, broadcasting, and hosting

arts. Research on the advantages of "massive carrier, unprecedented timeliness, interactivity, and multimedia" [14].

On the other hand, due to the development of online news, the authenticity of news is reduced, the spread of fake news and false information, the proliferation of pornography, the violation of personal privacy and so on [15]. All of these are also looking forward to our research and discussion. To build a virtual studio project, we should adhere to the construction principles of practicability, reliability, and scalability, and comprehensively consider the functions, operation, and configuration of the virtual studio system [16].

2. THE PROPOSED METHODOLOGY

2.1 The Intelligent Multi-Dimensional Signal Recognition Processor

Support vector machine (SVM) is a superior artificial intelligence method proposed by Vapnik et al. [4-5] in the 1990s based on statistical learning theory. It is based on the principle of structural risk minimization. Face recognition algorithm and face Feature access is the key to realizing automatic face recognition access control system. The former mainly includes three links: face detection and positioning, feature extraction and face comparison; the latter is mainly the reading and writing of FLASH memory.

The system software flow is shown in each reflection signal in the diseased area is defined as the diseased signal, as shown by the dotted line mark S2 in Figure 1. It is the basis and premise of the realization of intelligent disease identification in this paper to analyze the GPR reflected wave signal, study the feature difference between diseased and non-disease signals, and extract the identification features of diseased signals. Least squares support vector machine (least squares SVM- SVM) is a new extension of the standard SVM replaces the inequality constraints of the standard SVM with equality constraints transforms the quadratic programming problem into a linear equation solving problem. First, the input image is mapped to the YUV color space, according to the ellipse skin color The model performs skin color binarization processing [3] and uses mathematical morphological filtering to eliminate some isolated noises.

Then, the face area is extracted and located by the improved horizontal and vertical projection algorithm. The frequency characteristics of the signal can be obtained based on the frequency domain analysis of the signal, but the use of Fourier transform to extract the spectrum of the signal needs to use all the time domain information of the signal, and it cannot reflect the variation of signal frequency components with time. For the sensor array, it is obvious that the output of each sensor is affected by multiple signals such as pressure and temperature at the same time, and it is actually the fusion of multiple input information. Let the input signals be x_1, x_2, \dots, x_n the output of each sensor respectively. Here, the first 40 largest eigenvalues are taken, so each eigenvector contains 40 float data, and each float data occupies 4B, so A face feature vector occupies 160B.

2.2 The Dynamic Network Simulation of News Dissemination

The initial research of SVM regression is aimed at the linear function fitting problem of linear sample points. That is, the function $f(x)$ to be fitted appears as a linear function, and its form can be represented by $y = \omega T x + b$. Compare the extracted feature vector with the vector pre-stored in FLASH. The Mahalanobis distance method is used for comparison, which

is an effective method to calculate the similarity between two unknown sample sets. Unlike Euclidean distance, it takes into account the connection between various characteristics. In order to analyze the frequency characteristics of the reflected wave signal in the local range or instantaneous, it is necessary to carry out a joint analysis of the signal in the time-frequency domain.

At present, the commonly used time-frequency domain analysis methods mainly include short-time Fourier transform, Wigner distribution, wavelet transform, HHT transform and other methods. A number of representative scholars and works have also emerged in sports communication, sports new media, sports film and television, sports commentary, sports media management, sports news communication education and research, etc. In short, through the pioneering and hard work of several generations of scholars and scholars, sports news communication has begun to gain influence. From the above analysis, it can be seen that although the technical service providers of online news are already struggling to move forward, my country's The development of China's information industry is far less mature and powerful than that of developed countries, and the development of online news still has a long way to go.

It is not enough for network operators to drive China into a mature network age. The changes of the times and the advancement of science and technology have prompted the virtual character image to be gradually sought after in various economic fields, and the sense of technology and art displayed by virtual technology has been loved by the public. The construction and design of virtual characters mainly rely on virtual technology to create virtual images. Converged Media Virtual Studio System is a set of virtual studio servers, cameras, camera trackers, chroma kiers, and audio and video switchers.

2.3 The Construction Of Virtual Broadcasting System

It takes 4 bus cycles to write data to the FLASH internal address. It begins with two unlock cycles, followed by a program setup cycle, followed by the address and data to be programmed. It is unique for the unfixed base adaptive decomposition of signals and has good localization properties in both time and frequency domains, and the time domain resolution is extremely high.

Within the discipline of physical education, sports journalism and communication has achieved a jump from the research direction of sports journalism and communication, a secondary discipline of sports humanities and sociology, to a secondary discipline (outside the catalogue) of sports journalism and communication under the primary discipline of physical education; In the discipline of journalism and communication, some sports colleges have already obtained journalism, and secondly, college journalism departments have not paid enough attention to the construction of the "Internet Journalism" discipline at present, and the market demand situation has not become college news in time. The weathervane of the professional setting of the faculties and departments has caused the dislocation of the professional setting of colleges and universities and the market demand. Enhance people's sensory experience, thereby enhancing the influence of media platforms such as TV programs and online videos.

At the same time, computer technology can be used to carry out virtual character performance activities. As long as

sensors are installed on the body joints of real people, various data information obtained through the sensors are transmitted to the workstation. In order to meet the needs of recording online courses and programs, the fusion media virtual studio has the selection of lamps and lanterns should be based on the specific site conditions, not only to ensure the requirements of the camera's real scene picture on the lighting, but also to consider the modeling effect of the lighting, and reasonably select the lamps. At present, the news talent training plan of the university journalism department is not connected with the media market. Phenomenon. Since the implementation of the market-oriented reform of the journalism industry in my country, the market development of the journalism industry has undergone great changes, and the demand for journalism talents has also been different. In particular, the emergence and rapid development of online news is a challenge to traditional journalists.

3. CONCLUSIONS

Multi-dimensional sensor arrays can sense multiple signals at the same time. Decoupling and parallel extraction of sensed multiple signals in a timely and accurate manner is a key problem that needs to be solved in the development of sensors and even robots. Exploring the methods of establishing and improving the discipline of Internet journalism not only has certain theoretical value, but also has important practical significance. Therefore, it is necessary to establish the discipline system of Internet journalism in a scientific and orderly manner, and reasonably improve the development model of Internet journalism. The development strategy of all directions, such as the application in the construction of virtual characters, system modeling, etc., integrate these aspects, and introduce intelligent information technology.

4. REFERENCES

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