Research On Self-service Physical Examination Equipment For Drivers

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Abstract

With the change of the world environment, as well as the increasing attention of human beings to the sense of social physical examination and the constantly updated material and cultural needs, self-help equipment is more used in hospitals, police stations, government affairs centers and other government departments, and the emergence of driver self-help medical equipment, compared with the cumbersome medical examination in hospitals, has occupied a large market, and waiting for the driver's acceptance.Realize one-stop processing, and the physical examination report is immediately desirable. Conduct real-time monitoring of the whole process of business handling, and encrypt and archive relevant data for traceability. To explore multiple related matters to achieve "one thing at a time", Reduce the work links and the required proof materials.

Keywords

drivers;self-service medical examination equipment;acceptability

Overview

Traffic police in Guizhou have successively launched self-service physical examination services for drivers in government affairs halls and vehicle administration offices in 88 cities and counties in the province.Intelligent physical examination photo terminal is an integrated traffic management business self-service platform. The system adopts face recognition, multi-modal perception, artificial intelligence algorithm and a variety of UI interaction means, integrating driver self-service photo and self-service physical examination in one, realizing a variety of business management, save resources, and achieve real convenient for the people and conducive to the work of traffic police.To achieve one-stop handling. The physical examination report repairs done while you wait.It also reduces the burden of personnel during the epidemic period and realizes no-contact physical examination.

The physical examination report of the automatic physical examination machine is valid for six months, which is the same as the physical examination report of the hospital. Originally, the two are the same, but the way of operation is not the same, if we regard the self-service replacement machine as a physical examination in the hospital, we will find that both are the same project physical examination, so only the way is different, the results are the same. Considering that after completing the physical examination in the automatic physical examination machine, but also in order to obtain the physical examination report, and then successfully complete the replacement of the driving license.

According to the report of the Ministry of Public Security, by September 2021, the number of motor vehicles in China reached 390 million, including 297 million cars; the number of motor vehicle drivers nationwide

reached 476 million, including 439 million car drivers, accounting for 92.14% of the total number of drivers. In 2021, the number of motor vehicles in Guizhou Province will reach 12.0186 million, including 10.9452 million automobile; The number of motor vehicle drivers in the province reached 11.1804 million, of which 9.5448 million were automobile drivers, accounting for 84.61% of the total number of drivers.In July, 2021, In response to the No.298(2020)We deepened the reform of public security traffic management, delegating power, streamlining regulation and providing services, and took 12 measures to improve the business environment from The Traffic Management Bureau of the Ministry of Public security, The No.43 Plan （2020） of the National teleconference on Plan for the key tasks of deepening the reform of streamlining administration, improving services and improving the business environment,We will fully implement the "no meeting" approach and further expand the "Internet plus government services" approach.Provide "24 hours open" online government services; Promote the integration of more matters, Give full play to the "one-stop" service functions of local government halls, Accelerate the realization of one-window acceptance, time-limited completion, and run at most once;With the continuous improvement of technology involvement in service contact, driver's are in service communication.In the process of delivery, it is inevitable to contact with technological media and use Driver self-service physical examination equipment.Therefore, driver's' attitudes towards the use of technology will inevitably affect their adoption behavior.Better understand what factors drive driver's to adopt or not to adopt self-service.One way to determine technology is to study the potential attitude of driver's. With driver's there are many studies on degree correlation.

The rapid development of information and communication technology has not only brought great convenience to human life, but also changed people's lifestyle. However, in the process of digital diffusion, due to various factors such as group, region, time, economy, and resources, there may be a digital divide phenomenon in which digital access is disconnected from information technology. "The digital gap represents the disappearance of opportunities and the lack of competitiveness. Therefore, eliminating the digital gap has become an important issue in many countries. Especially, the gap in learning resources and abilities of young students is crucial to the future competitiveness of a country, and is widely concerned by governments and educators.". In recent years, due to the popularity of intelligent mobile devices, coupled with the advancement of wireless network technology and the enrichment of high-quality digital learning content, mobile learning has emerged as a new type of learning method. However, the emphasis on visual operation interfaces in mobile touch devices may deepen the digital divide for users. In addition, in terms of information technology literacy, most current mobile touch devices (including mobile phones and tablets) lack important functions to assist users in their operations, such as screen reading, Chinese input method with auxiliary functions, and display of Chinese characters. The online platform for digital courses also needs to take into account accessibility web development specifications, These reasons may lead to students not being able to enjoy the convenience and autonomy brought by intelligent mobile touch devices.

In recent years, with the progress of internet technology and changes in consumer behavior, various types of businesses have been constantly introduced. The information services and products derived from the provision of retail services by Self Service Technologies (SSTs) seem to have changed the lifestyle of consumers, but whether they are generally accepted by the public has become a topic worthy of attention. Unlike previous studies that have discussed users' intention to use self-service systems, this study examines technology readiness from both the receptive and inhibitory aspects of using new technologies, integrates self determination theory and status quo preference theory to extend the ability and willingness level of readiness, and

finally adds situational factors to further observe the relationship between self-help and interpersonal assistance, To clarify the user's intention to use technology that is influenced by service exposure. This study uses a questionnaire survey method, with a total of 514 valid questionnaires collected. Linear structural equations are used to analyze research hypotheses. Through empirical analysis, this study found that autonomy and inertia have a mediating effect, representing that consumers' technological readiness depends on their willingness to promote the use of self-service systems. Competency and switching costs do not have a mediating effect. In addition, switching costs are positively correlated with usage intentions, indicating that modern people believe that their abilities can achieve their goals, and do not avoid using self-service systems because of switching costs, preferring to accept the challenges of new technologies. On the other hand, interpersonal interaction has a significant moderating effect, representing the use demonstration effect of recommendation guidance from service personnel, which can promote consumers' use intentions. The research results of this study can provide academic and enterprise reference directions and suggestions for future human-machine configuration.

Through the collection, sorting and reading of Driver self-service physical examination equipment research literature, it is found that foreign research on Driver self-service physical examination equipment started around 2000 for about ten years, but academia only started to get involved in this field in recent years, and related theoretical research is just emerging. It can be said that in the face of such a new thing as Driver self-service physical examination equipment, no whether foreign or domestic research does not match the realistic rapid development status quo. As scholar Bitner and others mentioned, it is often more difficult to actually implement and manage Driver self-service physical examination equipment than expected.

Setting place of the driver's self-service physical examination equipment

According to the Liaocheng Evening News reported on 3th August,2017, the subtitle is shaped like a phone booth can complete the driving test physical examination in 3 minutes-queuing to experience the driver self-service physical examination equipment (according to the touch screen prompts).Ms.Zhang wanted to get a driver's license, she asked for a morning leave to sign up and pay money, thought it could be done before noon, but the shell in the physical examination."May be because during the summer vacation, the driving school signed up very many people, I went when there have been a lot of people in the queue, originally 20 minutes can end the matter, forcibly spent nearly an hour, the weather is hot and stuffy, let people in a bad mood, when the physical examination this matter quickly and convenient solution."Recently, Ms.Zhang's wish has already had a" robot " to help her achieve.The robot looks like a telephone box, equipped with a monitoring, detection and camera system. Through the simple operation of the touch screen, it can complete the physical examination requirements in the Application and Use of Motor Vehicle Driving License. The whole process is fast and efficient, and can be completed in three minutes.It is understood that this "small sentry box" is called the "driver self-service physical examination equipment".

According to a report that Qingdao Daily queuing up to experience driver self-service physical examination equipment, the reporter experienced the physical examination robot in Qingdao High-tech Zone Tongtian Intelligent Technology Co., LTD.The first step into the physical examination machine is to place the ID card in the designated induction area for scanning, and the system automatically reads the identity information of the physical examination personnel, and you can take the certificate photo.The medical machine has designed the autonomous lifting device of the camera lens, which can automatically adjust the height according to the

head position of the medical personnel, and shoot in the appropriate position.In everyone care, of course, on the certificate photo effect, the medical machine also made a special design, Canon 1200D camera effect, high definition, and automatic focus, automatic optimization function, can even in a dozen photos to choose the best one, if not satisfied with the photo effect, also can choose to remake.After taking photos, according to the prompts of the screen, respectively trunk, vision, color discrimination, hearing and upper and lower limb detection, the whole process of the detection has surveillance video, can be checked at any time.After the physical examination is completed, confirm that the information is correct, you can click to submit to complete the physical examination.

According to Zhengzhou Evening News reported on July 18,2019, The reporter learned from the traffic police brigade of Zhongmou county that the self-service medical examination equipment for drivers purchased and installed by the county with an investment of more than 2million yuan was officially put into use.It is understood that this is the purpose of Zhongmou County Public Security Bureau to carry out the work of "releasing, managing and serving" in depth, so as to truly make data run more and people run less. Zhongmou County Public Security Bureau invested more than 2million yuan to purchase 6 self-service medical examination machines for drivers, which were installed in the vehicle management squadron of Zhongmou traffic police brigade and some township police stations. The application of these self-service medical examination machines for drivers can realize the one-stop operation of reissuing and changing motor vehicle driver's license, and truly realize the work goal of "running once".

According to Qingdao Daily report on April 22,2020, It only takes 3 or 4 minutes for the physical examination, which is much more convenient than going to the hospital.A few days ago, the self-service examination machine for drivers was newly launched in the hall of the vehicle management office of the traffic police brigade of the Municipal Public Security Bureau. Drivers who apply for a driver's license for the first time or renew a driver's license at the expiration of the period can undergo physical examination through the self-service physical examination machine. From April 2 to 4:30 p.m. yesterday, 568 people had "tasted" self-help physical examinations. "Just put the ID card in the sensing area, and then the machine will automatically read the relevant information, and then select the item to pay for and complete the detection." The staff of the vehicle management office of the traffic police brigade of the Municipal Public Security Bureau said that the instrument can carry out the physical examination items of changing (obtaining) driver's license, such as vision test, hearing test, color discrimination test, trunk test, etc., and can "one-stop" complete the processes of information collection, physical examination, photographing and payment, and the time required can be shortened to less than 5 minutes. According to the staff, the driver self-service physical examination machine makes full use of the ultrasonic pen ranging, computer software, touch control and image processing technology to realize the automatic detection of the height, weight, vision, hearing, color discrimination, upper and lower limbs, trunk and neck of the physical examination personnel, and the medical students audit and sign the physical examination results remotely. This service mode greatly improves the efficiency of physical examination on the premise of ensuring the accuracy. There are surveillance videos throughout the detection process, which can be accessed at any time. The reporter learned that the cost of using the driver self-service physical examination machine is 30 yuan, and the photography is free (the washing cost is 20 yuan). Mr. Qiu, the driver of the "try fresh" self-service physical examination machine, said that if the driver goes to the hospital for physical examination, he should obtain the physical examination report from the hospital, and then come back to the vehicle management office to handle relevant business and travel back and forth, which is

far less convenient than using the self-service physical examination machine in the vehicle management office. Yi Yong, director of the vehicle management office of the traffic police brigade of the Municipal Public Security Bureau, said that after the launch of the driver self-service medical examination machine, it was welcomed by drivers. On April 16 alone, 45 drivers had self-service medical examinations. After the driver completes the physical examination at the self-service physical examination machine, the relevant data will be directly entered into the business system of the vehicle management office. Citizens do not need to print thesis certificates and submit them to the window. After passing the physical examination, the driver can conduct online renewal business at the "96111 convenience service bridge" wechat official account, or choose to handle relevant business at the manual acceptance window.

According to Gansu workers' daily report on May 26,2020,In order to comprehensively extend the public security traffic control "release management service" convenience service measures, further facilitate the "one-stop" handling of vehicle management business for the public, and provide more convenient and efficient services for the public. Recently, the "self-service physical examination machine for vehicle driver management" meticulously created by Lanzhou public security traffic management department was launched and officially put into use, realizing the physical examination services of renewal of license upon expiration, initial application for driver's license, application for additional driving, restoration of driving qualification and other businesses, and self-service completion within 10 minutes.For example, in the past, citizens needed to go to the hospital authorized by the public security traffic management department for filing. After filling in information, queuing up for payment, manual physical examination and other links, after the relevant data of physical examination were transmitted to the business system of the public security traffic management department, the masses could go to the vehicle management business window to handle the license replacement business. It also took half a day as soon as possible. Now, when handling the driver's physical examination business, people can use the "self-service physical examination machine for vehicle driver management" to brush their ID cards, which can "one-stop" complete various processes such as information collection, physical examination and payment, and shorten the physical examination time to less than 10 minutes.After completing the physical examination relying on the "self-service physical examination machine for vehicle driver management", the data will be directly entered and synchronously transmitted to the business system of the public security traffic management department. People can directly handle relevant businesses through the "public security traffic management 12123" app or manual window.It is reported that the "self-service examination machine for vehicle driver management" launched this time is another measure taken by Lanzhou public security traffic management department to continue to expand the in-depth cooperation between police and doctors and spare no effort to promote the construction of "intelligent traffic management". The online use of "self-service medical examination machine for car driver management" will provide more convenient and affordable self-service medical examination and certificate renewal service experience for office workers on weekends and holidays.At present, the first batch of four "self-service examination machines for vehicle driver management" have been put into use in Lanzhou New Area, Qilihe, Yantan and Chengguan traffic police brigade. The medical examination fee of "self-service examination machines for vehicle driver management" is 50 yuan / time as approved by the price department. In the next step, it will be gradually promoted and put into use in all car driving management business windows in the city, so as to effectively meet the practical needs of the masses for "handling nearby" and "self-help" physical examination certificates of drivers.

According to Tianjin Political and Legal Daily report on May 20,2021, In order to further facilitate motor ve-

hicle drivers to handle the renewal business upon expiration, give full play to the service function of "Internet + traffic control" and reduce the round-trip running and time cost in business handling, recently, the first one-stop service machine for driver intelligent physical examination in Hongqiao District was officially put into use. The driver can complete the renewal physical examination within 5 minutes after passing the service machine with his / her ID card. Subsequently, through the online application of traffic control 12123 mobile app, the new motor vehicle driver's license without leaving home will be mailed home.On the morning of May 17, Mr. Tian, a citizen, came to the New Hongqiao brigade of the traffic police Hongqiao detachment. Through the one-stop service machine for driver's intelligent physical examination set in the traffic management service hall, he passed the physical examination in less than 5 minutes and completed the online submission of the physical examination certificate after successively testing the trunk, upper limbs, vision, color discrimination, hearing, lower limbs and height according to the machine prompts. After waiting for the approval and approval of the backstage medical institution, Mr. Tian can complete the online application of the business by selecting the "renewal of certificate upon expiration" business option through the traffic management 12123 mobile app. After passing the business review, the new driver's license will be mailed home within a few days. The data shows that since the first one-stop service machine for driver intelligent physical examination in Hongqiao District was put into use, more than 20 drivers have come to have a taste.The public security traffic control department said that in the past, for drivers whose residence is far away from the one-stop driver physical examination filing hospital, they need to go to the driver physical examination medical institution for physical examination before handling the driver's license renewal business, and then carry the physical examination certificate to the municipal vehicle administration office or each vehicle administration branch and the safety supervision vehicle Hall of the traffic police detachment to submit the medical examination certificate materials issued by the hospital on site before they can renew their new motor vehicle driver's license. It often takes 2 to 3 hours to handle a business, and it is extremely inconvenient to go to and from multiple business windows. The launch of the one-stop service machine for the driver's intelligent physical examination not only solves the inconvenience of returning to and from multiple windows for the driver to change his license at the expiration of the period. After self-service handling and online submission and review of the physical examination certificate, the driver can complete the subsequent business process of renewal at the expiration of the period online by operating his mobile phone. The offline physical examination + online submission of the application can be mailed home within a few days without leaving home.The public security traffic control department suggests that the driver can carry the original of his / her ID card, and the one-stop service machine for the driver's intelligent physical examination can handle the physical examination for the driver under 60 at the expiration of the term. During the physical examination, please do not wear hats, masks, sunglasses and other items to cover your face. Those who correct their eyesight should wear glasses throughout the process. The business cost of physical examination is 35 yuan. The business handling time of the public security traffic control window is from 8:00 to 12:00 from Monday to Saturday, and from 13:30 to 18:00, outside the New Hongqiao brigade of the traffic police, No. 137, Hongqiao North Street, Hongqiao District.

According to People's daily report on 2 February, 2022, "Please identify which direction the sound comes from." The prompt sound sounded in her ear, and Ms. Zhang chose "right" on the screen button below... At the jinhuayuan traffic management service station in guanshanhu District, Guiyang City, Guizhou Province, Ms. Zhang, a citizen, is going through the self-service physical examination machine to change her driver's license.It takes less than 5 minutes from information entry to 6 tests including vision, hearing, color discrim-

ination and trunk detection. After paying the 20 yuan medical examination fee, Ms. Zhang walked out of the self-service medical examination machine. The staff of the traffic control service station informed that the backstage had received her physical examination report and immediately replaced her driver's license."It's convenient to get a new driver's license at home." Ms. Zhang put her new driver's license in her bag and said with a smile that in the past, the most troublesome thing to change her driver's license was to go to the hospital for physical examination. After the physical examination, she went to the vehicle management office for a day. In order to facilitate the masses to handle the driver's license replacement business, the Traffic Management Bureau of Guizhou Provincial Public Security Department has set up a self-service terminal for traffic management business in communities, shopping malls, hotels and other places with large population density. At present, the province has installed 139 self-service medical examination machines, self-service certificate making machines and other equipment.At about 5:50 p.m., the comprehensive business hall of the vehicle management office of Guiyang public security and transportation administration welcomed Ms. Bai, the last person to handle affairs on the day. Ms. Bai's foreign driver's license needs to be moved to Guizhou. Originally, she thought that the vehicle management office would leave work at 5 p.m., but she was too late to get there after work, so she delayed handling it. "I stopped by today to have a look. I didn't expect to be able to handle business after work." Ms. Bai said.It is understood that the Traffic Management Bureau of Guizhou Provincial Public Security Department requires the vehicle management offices at the city and county levels to provide overtime services on weekends and holidays, and extend the service on normal working days. "After normal work, we will arrange staff to be on duty until 6 p.m. to provide more convenience for the masses to handle business." Renjianhua, a policeman of Guiyang Public Security Traffic Management Bureau, said.

Technology of self-service physical examination equipment for drivers

Although Driver self-service physical examination equipment has increasingly penetrated into people's lives, without drivers choosing to use Driver self-service physical examination equipment, this form of service cannot generate any value. Organizations should manage drivers as strategic resources, and driver's are a new element in the Driver self-service physical examination equipment production process. At present, many scholars have conducted research on the role of drivers in the service delivery process. Scholars have a strong interest in drivers as human resources or some employees. With the advent of Driver self-service physical examination equipment, organizations have recognized the advantages of managing drivers as strategic resources in the service production process. More and more scholars have shown great interest in the role of drivers in service delivery.

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From the market space,based on the above discussion on Driver self-service physical examination equipment, most of the factors that affect the use of self-service by service users are those related to technical characteristics. This research will have more discussion on the technology acceptance model (TAM) in the next section. In fact, in addition to the technical characteristics that will affect the willingness of service users to use self-service, service user characteristics will also have an impact. Some service users are high-tech enthusiasts, but there are also service users who are cautious about technology, fear, repel and resist. For example, age is the key factor. Older people are generally unable to accept high-tech products, so the attitude or belief of service users on information technology, Inevitably, it will affect their acceptance and evaluation of Driver self-service physical examination equipment.

Significance of Driver self-service physical examination equipment

For service enterprises, whether Driver self-service physical examination equipment can improve driver' satisfaction and enhance the relationship between driver's and enterprises, and whether it can bring organizational performance to service enterprises is a problem they must face, and it is the fundamental purpose for service enterprises to implement Driver self-service physical examination equipment.Whether drivers adopt self-help physical examination equipment is the focus of enterprises.Driver self-service physical examination equipment research in China started later than that in foreign countries, and only in recent years did it attract scholars' attention. At present, it is basically at the stage of introduction and dissemination of concepts, and its research focus is on reviewing and sorting out important foreign literature, discussing the importance of Driver self-service physical examination equipment, and putting forward relevant countermeasures. The research based on domestic practice is relatively small, based on the perspective of enterprises, applied case study methods to explore the impact of Driver self-service physical examination equipment on enterprise performance. They have constructed the theoretical framework of "Driver self-service physical examination equipment system resources - service productivity - enterprise performance", which mainly includes two stages: the first, the generation process of Driver self-service physical examination equipment value: through the use of resources in the enterprise's specific Driver self-service physical examination equipment system, the service production rate is affected; the secred, Stakeholders gain benefits: the service productivity generated in the previous stage has a multifaceted impact on the overall performance of enterprises. Here, stakeholders refer to enterprises, driver's and employees, which correspond to financial performance, driver' satisfaction and employee job satisfaction respectively.

Intelligent innovation

Accurate detection

The driver self-service physical examination equipment uses advanced technologies such as face recognition, behavior recognition, speech recognition, semantic understanding, artificial intelligence algorithm, and multi-modal perception interaction to realize the accurate detection of various physical examination items.

The concept of self-service has gradually become popular, especially in developed countries, its self-service and self-service equipment are very extensive, and the application degree is also very high. It can be said that self-service equipment or self-service service with its unique advantages, will become the trend of the development of The Times. In China, self-service is in its initial stage, and the application field is relatively single, in addition to the banking industry and a few public information query, other fields also have a very broad development prospects.

Self-service refers to the interactive way to provide customers with the use of cash, magnetic card, IC card and other independent payment methods to obtain the required services as the basic feature, with convenience, security, efficiency and high-tech content and different from the traditional service industry. It is a collection of light, machine, electricity, anti-counterfeiting identification, digital encryption, intelligent software and other technologies in one of the high-tech intelligent products, is the inevitable product of the development and progress of human society to a certain stage. Under the new economic conditions, the so-called self-service generally refers to the subject with service needs to obtain or transmit the customized information and data through the Internet technology. It changes the mode of trading, allowing customers to be more involved in trading or communication, and enhancing the interaction and autonomy.

Smart photo

Use face recognition, automatic tracking, automatic shooting of id photos, through the image Processing technology, to provide users with high-quality certificate photo shooting service.

Whole-process monitor

Monitor the whole video during the physical examination, and send the video to the audit platform, It can be reviewed and checked backwards to ensure that the handling process is controllable, traceable and traceable.

Highly integrated

Set driving license business, motor vehicle business, illegal processing business, driver self-service Physical examination, self-service photo function in one, 24 hours one-stop self-service.

Convenient and efficient

The whole voice, text, video guidance, free learning easy to operate, simple interaction.use Internet platform as the support, terminal equipment deployment is fast, stable, occupy The ground area is small.

Then we examined the perceived ease of use, perceived usefulness, and the impact of self-help medical equipment on drivers' willingness to use fast medical services. Feeling easy to use has a positive impact on the perceived usefulness of rapid medical services, but there is no significant and direct impact on attitudes and use intentions. Perceptual usefulness predicts driver attitudes and usage intentions. In addition, drivers who have a positive attitude towards self-help medical services are more willing to use the service.

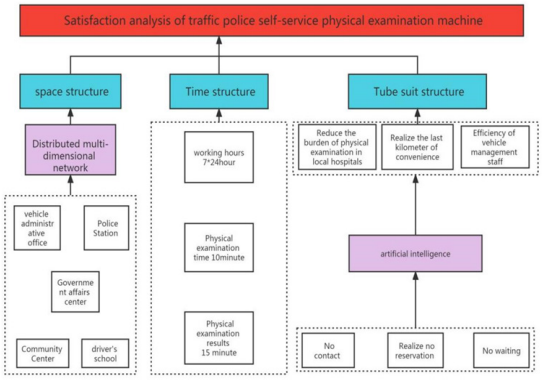


Figure 1 Satisfaction profile of self-service physical examination machine

Research contribution of theory and practice of contribution

In order to further improve the satisfaction, improve the business experience, reduce the workload of business window, now launched car tube business self-help examination photo service system is ordinary or outbreak of a useful equipment, the system set certificate self-help photo and car tube business examination machine function in a highly integrated self-service terminal equipment, the terminal equipment can be used for a variety of certificate photo collection, upload, printing and car tube business related examination, driving, replacement, replacement business.Through the car driving management self-service physical examination and photography system, the traditional driving license related business automation, process, the staff from the heavy business, the system let the information run more, the masses run less errands, standardized management, convenient for the masses.With high efficiency, highly intelligent, convenient and fast characteristics. According to the guidance, step by step, the operation, the terminal equipment system will be automatically seamlessly connected with the relevant business management system, can be through portrait comparison, information check, to ensure that the card handling personnel convenient business handling, information accuracy, information security and no leakage.The system is suitable for the self-service handling of the vehicle driving and management business.

How many benefits does Self-service physical examination machines have:
Self-service physical examination machines have several benefits, including:Convenience: These machines are available in public places like shopping malls, airports, and pharmacies, making it easy for individuals to access them at any time.

Cost-effective: Self-service physical examination machines are generally cheaper than visiting a doctor for a health check-up, making them an affordable option for people with limited budgets.

Time-saving: A self-service physical examination takes only a few minutes, unlike a doctor's appointment, which can take hours.

Early detection: Self-service physical examination machines can help detect health problems early, allowing individuals to seek medical attention before a condition worsens.

Privacy: Some people may feel uncomfortable discussing personal health issues with a doctor. Self-service physical examination machines offer a private and confidential way to assess one's health.

Accessibility: Self-service physical examination machines are available in public places, making them accessible to people who live in remote areas or have limited access to healthcare facilities. Overall, self-service physical examination machines provide a convenient, cost-effective, and accessible way for individuals to monitor their health and detect potential health problems early.

In the complex social network, the seemingly sudden and random huge events such as epidemics are often generated through multi-level evolution. Luo Jiade of Tsinghua University reports the hierarchical and evolu-

tionary problems in the management of such complex systems.useFacebookFor example, Luo Jiade pointed out that the development of the Internet, big data and new social media enables scholars to more directly feel the development mechanism behind the emergence of management phenomena, which promotes the development of complex system management theories that attaches importance to dynamic, network, whole, emergence, abnormal and relationship research. By sharing the multi-layer network of the venture capital industry, And two research cases of the circle and its followers, It shows the progressive social phenomenon of self-organization in interpersonal communication, And summarize the significance of multi-level evolution studies, That is, observing the emergence process of the structure and the evolution process of the behavior behind the structure can enable scholars to see the possibility of the trend development, Such studies may avoid treating collective states as individual states, And the path to summing individual states as collective states. Finally, Luo Jiade prospects the new methodology of computational social science, and pointed out that the future research will combine qualitative, quantitative, theoretical and other tools through big data and dynamic simulation, to improve the detail of the prediction model in many reciprocating studies.

Research prospect

Drivers can check and evaluate their physical condition anytime and anywhere through self-service medical examination machines, without the need for appointments and queuing, making the operation simple and fast. The self-service medical examination machine can also provide drivers with test reports and personalized health advice, helping them to timely understand their physical condition, prevent and control the occurrence of diseases.

Therefore, the promotion of self-service physical examination can be carried out in a new and convenient way, so as to meet the needs of users and improve user satisfaction.

To optimize the top-level system design of big data serving government affairs around public interests, big data provides technical support. With big data as the lead, it builds an expert team, optimizes the top-level design, and improves the government's decision-making ability. Only by building around public interests can Guiyang, Guizhou, be promoted to build a distinctive government service system.

The need to optimize the grassroots service system, the goal of its construction is to serve the citizens. In order to improve the needs of the service-oriented government that the people meet, it is necessary to improve the service awareness from top to bottom, improve the existing service system, promote the use of big data for data support in government governance, and better provide services for the regional people.

Government departments at all levels need to emphasize that on the basis of the interests of the government providing public service objects, they should consciously abide by social values, policies and decrees, and ensure that government services are promoted in accordance with the law and regulations. The process of government affairs needs to be convenient for the people, and more importantly needs to be completed in accordance with the law and regulations, so it is necessary for the necessary process to be guaranteed.

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