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ANALYSIS OF THE EVOLUTION OF MONITORING SYSTEM DESIGN TYPES

Interface design is a modern trend in graphic design. In the article [1], the authors analyze current research trends and future directions in human-computer interface design through a comprehensive literature review.

The purpose of this paper is to examine the development and transformation of design styles used in monitoring system interfaces over time. This paper systematically lists the development history of monitoring system interface design, which is mainly divided into five stages.

1. Primitive surveillance development stage

Primitive monitoring mainly relies on personnel, buildings, special objects, etc. to achieve specific monitoring and security maintenance functions.

2. Early surveillance development stages

With the development of computers, were mainly monitored and managed through the computer console and command line interface. The interface type at this time was mainly physical user interface, and there was no graphical monitoring interface. It mainly provided simple status and alarm information to the staff through indicator lights, mechanical pointers, etc.

3. Mid-term surveillance development stage

In the late 19th century and the early 20th century, the first generation of video surveillance system is called closed-Circuit Television (CCTV) system, through camera, video, surveillance system to capture the video images captured through the camera, can be understood as not interactive graphical user interface, according to the differences of the equipment, this kind of monitor is mainly in black and white or color display.

In the development of the monitoring system, the analog digital monitoring is also known as a hybrid monitoring system, Integrating the advantages and

functionality of these two technologies, In the early stage of fully realizing digitalization and intelligence, Better to realize the needs of users, At lower costs and smoother upgrades, Widely used in monitoring systems, It will also be the necessary stage of security monitoring [2].

With the continuous development of the security industry, the application of units is no longer limited to the production industry, but widely used in such as urban emergency, urban transportation, smart campus, intelligent buildings, energy production and other important public facilities. It can be seen from this, good interface design and interaction mode, is an important link in the security work [3].

4. Modern surveillance development stage

1) Computer graphic user interface

With the popularity of computer equipment, people can interact with the display through input devices such as keyboard and mouse, and operate through the menu bar, function bar, graphical elements and other controls in the computer interface.

2) Mobile application interface

With the continuous development of mobile devices, people's real-time viewing of information is more applied to portable devices such as mobile phones and tablets.

3) Large-screen interface for data visualization

Data visualization is to display complex and abstract data in the form of intuitive images and charts through visual means of monitoring devices, so that it is easier for people to understand the content and changes of information, so as to find its rules, so as to promote the application of data information.

5. Future surveillance development stage

The future monitoring development stage tends to be the intelligent monitoring platform, through the simulation modeling of real scenes, environment, climate, facilities, personnel and objects, for the operator of the control center to observe and operate the simulated real scene and equipment in real time. While implementing the virtual device interaction, trigger the feedback state of the real devices, bring about a more real and natural monitoring and management mode, realize a more rapid and effective interaction mode. it can not only be applied to industrial production, home furnishing, campus and public places, but also can be applied to the situation monitoring and management of the whole smart city in the future.

Conclusions. This paper lists the development process of the monitoring system interface according to the time line, explores the development direction of the future monitoring interface design, and analyzes the design of the monitoring interface to need the full consideration of the development of the times, technical level, development and operation costs, emergency events and other actual needs, in order to design a appropriate monitoring interface.

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Херсонського багатопрофільного ліцею 20

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СУЧАСНЕ МИСТЕЦТВО ХЕРСОНЩИНИ

Протягом існування людства мистецтво завжди було невід'ємною частиною нашого суспільства. Воно відображає реальність, під час якої було створене, дозволяє нам зазирнути в минуле, краще зрозуміти почуття предків. Водночас із цим, мистецтво формує нашу думку про ситуацію тут і зараз, стає певною формою протесту й опору.

Від початку другої половини XX століття і до сьогодні набувають популярності сучасні види мистецтва, які відрізняються від класичного наданням переваги саме ідеї, концепту витвору, аніж техніці чи стилю роботи.

Для людей, не пов'язаних із мистецькою сферою, може здаватися, що творчість поширена лише у відносно великих містах або навіть більш розвинених країнах. Проте це не є так. Мистецтво, а особливо сучасне, було та є актуальним і популярним у нашій країні, зокрема на Херсонщині.