Application of Fashion Garment Model Making Concept of European Windbreaker in Computer Software

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Abstract. Computer-aided model making system can make the structural design drawing of clothing specialty accurate and can significantly improve the speed of model making. Clothing, as a traditional technology, has gradually changed into a new production mode combining traditional and modern technology, and traditional manual work has been replaced by high-tech modern equipment. Clothing CAD technology is a bridge combining clothing design with high technology, and it is one of the important fields of computer software technology in the art kingdom. Using advanced CAD technology can greatly improve the design quality, speed up the development of products, and improve the scientific and creative design work. Computer-aided system is the product of the combination of computer technology and textile and garment industry, and it can be applied to modern high-tech tools in various fields such as design, production, management and market. This paper introduces the problems existing in the practical application of computer software design method in enterprises. Based on the fashion model making concept of European trench coat, it tells the difference between CAD model making and traditional manual model making method, and puts forward a new method of exerting CAD model making.

Keywords: Computer-Aided, Fashion Design, Model Making

1. Introduction

Computer Aided Design (CAD) is a new integrated computer application system technology developed rapidly in recent years. It uses computers as the main means to generate and use various digital information and image information for product design and engineering design [1]. Clothing pattern CAD is a comprehensive technology integrating clothing pattern design, computer graphics,
database, network communication and other disciplines. It is a parametric design theory with artificial intelligence technology under the guidance of clothing structure design theory. From fabric and clothing design to sample making and cutting, the computer shows the characteristics of saving time and being accurate [2]. By using them, we can save information, record inventory list, and make all partners in the production and sales of clothing and household industrial products communicate with each other. Clothing, as a traditional technology, has gradually changed into a new production mode combining traditional and modern technology, and traditional manual work has been replaced by high-tech modern equipment [3]. Computer-aided system is the product of the combination of computer technology and textile and garment industry, and it can be used as a modern high-tech tool in design, production, management, market and other fields. The rapid development of computer application promotes the penetration of CAD technology in textile and garment industry, which not only promotes the rapid development of textile and garment industry, but also opens up new technical fields for computer application, and plays a significant role in improving the scientific and technological level and market competitiveness of China's textile and garment industry [4].

Using advanced CAD technology can greatly improve the design quality, speed up the development of products, and improve the scientific and creative design work. It is a powerful tool to accelerate the upgrading of products and improve the market competitiveness of products. At present, many CAD pattern systems only provide various necessary pattern design tools for operators, and only use mouse instead of pen and screen instead of paper [5]. Most of these systems are developed by non-clothing professional computer personnel, and not all functions are very convenient to use. Because CAD, a computer aided model making system, can speed up the development of new products, improve the quality of products and reduce the production cost, CAD system plays a great role in improving the production capacity, innovation ability and market competitiveness of enterprises [6]. CAD technology can make the product design and development of enterprises achieve fast, efficient, well-designed, labor-saving, time-saving and material-saving, and reduce costs [7]. In order to make garment CAD better and more efficiently applied in garment enterprises, this paper introduces the problems existing in the practical application of computer software design method in garment enterprises. Based on the fashion model making concept of European windbreaker, it tells the difference between CAD model making and traditional manual model making method, and puts forward a new method of exerting CAD model making.

2. The development of model making technology in computer field

2.1. The use of the image of European windbreaker

The main purpose of computer fashion design is to help designers conceive new fashion styles. The computer's wonderful drawing function and rich colors are powerful tools to stimulate designers' creative inspiration and passion. In the actual production process, the strict formula input method does not conform to the pattern making habit of the factory pattern maker. Most experienced factory pattern makers often adopt the method of making boards by directly injecting inches, that is, drawing auxiliary lines and contour lines directly according to the requirements of clothing size and style. This is because the factory pattern maker has been using the same specifications and sizes for a long time, so he knows the details, specifications and adding amount like the back of his hand. The application of computer graphics and image processing technology can provide designers with a series of tools to
complete fashion design and drawing on computers, so that designers can realize their artistic ideas without pens and pigments. Clothing sample making is not only restricted by regional culture, but also restricted by the aesthetic taste of clothing sample makers themselves. It can be seen that the fashion model making concept of European windbreaker will inevitably be misused or rejected by other countries, which requires fashion designers to combine European windbreaker with modern clothing by virtue of their unique cultural understanding ability [9]. Within the framework of style design, if the user can't fill out the component composition and component name, the following component style design variables can't be determined, so it is not allowed to fill in.

If a style is recognized by everyone, it will become a symbol of the trend. For this reason, the fashion model making concept of European trench coat must be combined with modern clothing in order to become a trend, thus attracting the attention of the world. After the user fills in the content that can be filled as much as possible, it constitutes the fact framework. The style design knowledge provided by the user is stored in the database as the known fact knowledge, and the inference engine matches the corresponding prototype from the database according to the knowledge attribute in the fact framework. In the production of modern fashion model, we should take the initiative to apply the artistic features of traditional national costumes, comprehend the cultural meaning of traditional national costume patterns, learn the symbolism and aesthetics of the fashion model production concept of European windbreakers, and at the same time apply this rich symbolic and symbolic pattern to the production of modern fashion model [10]. The garment design based on 3D prototype provides the possibility to surpass the traditional form design. By changing various parameters of prototype abnormally, various novel styles which are difficult to obtain by manual design can be obtained, which reflects the superiority of computer design. By describing these forms in words and storing them in the style library as new examples, we can enrich the style library and provide users with more three-dimensional style effects.

2.2. Application of European windbreaker Technology

The application of garment CAD technology is a product in the digital information age, and its development will inevitably be influenced by many factors such as other society, science and technology, humanities and so on. Clothing pattern itself is a part of a certain social culture, and a certain social and cultural environment plays a vital role in restricting the production and development of clothing pattern. In brand clothing design, the fashion model making concept of European windbreaker is combined and used for reference in brand clothing design, and at the same time, the brand style and design characteristics are displayed, which lays a good color visual charm for brand development. With the rapid development and spread of clothing CAD technology, the design art has moved towards the popular development path. Therefore, with the rapid development of science and technology and the mutual integration and infiltration of art, garment CAD should form a batch of domestic garment CAD products in technology brands with high market share around the modern fashion design system and key links of industry. The fashion model making concept of European windbreaker has strong artistry and popularization, so it has good compatibility with international clothing culture. When designing clothing, we should be good at understanding and exploring the symbols in culture, and transform the archetypal symbols in culture into our own spiritual feelings. On the basis of analyzing and summarizing the main characteristics of prototype symbols, it is refined and then expressed in a clear, appropriate and timely form.
The style of clothing should be combined with the clothing pattern, which increases the difficulty of pattern making to a certain extent. Many pattern makers will make use of some small parts of clothing to make patterns, which makes clothing give people a sense of exquisiteness. The model making system can be divided into three levels: aided design, intelligent design and three-dimensional design. Among them, aided design is a mature level that has been realized now, intelligent design is the development direction that makes the sample making system greatly superior to manual sample making, and three-dimensional design is the future development direction of garment sample making from two-dimensional plane to three-dimensional transformation [11]. If there is no matching framework in the database, the knowledge in the knowledge base is searched according to the factual knowledge, and the 3D prototype parameters are solved by reasoning. At the same time, if necessary, ask the user to further input the relevant design variable value, and if the user cannot provide it, use the system default value. When applying the fashion model making concept of European windbreaker to modern fashion model making, we must realize the modernity of the pattern and meet the aesthetic and dressing needs of modern people. This requires fashion designers to dig deep into various expression techniques of patterns and effectively realize the innovation of patterns and costumes when making the reorganization model of European windbreaker.

3. Computer aided sample making system

For the design of clothing, the actual situation is that there are some reference pieces or patterns, and all that needs to be done is to modify these pieces or patterns locally. The position of the basic seam and pocket can be described, and each plate type can be described and modified. The fashion model making concept of European windbreaker has been widely used in fashion model making, but there are still some problems to be solved. First of all, some designers don't have a deep understanding of the cultural connotation of European trench coats. Clothing patterns can be classified from four aspects: artistic form, decorative technique, technological expression form and composition form. When using the digitizer to input clothing pieces or patterns, it is necessary to put the substitute pieces or patterns on the reading board of the digitizer first, and then use the positioning equipment of the digitizer to select two points on a straight line or some points on a curve [12]. A large number of models and parts libraries can be stored inside the computer. With CAD software, not only can various brush tools be used to draw the effect drawings, but also fabrics can be replaced on clothes by scanning. Some very advanced software provides designers with personal tailor-made styles in computer production. This method can make plates of individual sizes. This version is made for personal reservation. This computer program also has the function of allowing designers to input instructions to adjust the program.

The fashion model making concept of European windbreaker presents a two-dimensional decorative effect, which is not only vivid but also stereoscopic, and can show the theme of model making well. Therefore, the application of modern fashion model making to the fashion model making concept of European windbreaker should not only apply the essential image of the pattern, but also make full use of the model making and making process of the pattern. As for the general clothing picture or pattern picture, only a few sets of points need to be selected, which can be quickly and accurately input into the computer, and then necessary modifications can be made to the picture. The difference is that all the lines drawn when making the template are input and recorded in the computer at the same time, and the designer can see the digitized version synchronously on the computer screen.
With the increasing demands of consumers on clothing quality, it is difficult for people to favor clothing patterns with single form of expression. Therefore, it is of great significance to strengthen the designer's ability to re-pattern the fashion pattern of European trench coats.

Clothing CAD is a more intelligent clothing technology which combines engineering technology and artistic concept. It is an expression of an integrated and orderly process involving artistic creation, science and technology, economic operation, production and social communication. Designers need to give full play to their inspiration when designing clothes, summarize and analyze the characteristics of the fashion model making concept of European windbreaker, and finally express it in a clear form. In today's fierce market competition, the timely acquisition, transmission and rapid processing of information are the basis for the survival and development of enterprises. Therefore, clothing enterprises are paying more and more attention to the data, networking and convenient remote communication technology of clothing information. Every nation has its own main culture, and the intervention of other cultures will only enrich this main culture. Color is not only one of the elements of pattern, but also an important means of expression in pattern design. Pattern colors are often not restored to natural colors in a realistic way, but consciously strengthened and induced. Intelligent garment CAD system enables CAD system to have designer-like functions and thinking methods to a certain extent, instead of just a repeating process, thus leading design automation into depth [13]. Using artificial intelligence technology can help fashion designers inspire design inspiration, stimulate creativity and imagination, and design novel fashion styles. In order to design the color of a part of the whole clothing pattern, we should not only coordinate the color relationship of the pattern itself, but also handle the relationship between the pattern and the overall color of the clothing.

Using computer grading can not only free people from complicated and repeated manual labor, but also ensure the accuracy of pushing and putting samples, and the efficiency will be multiplied. Three-dimensional virtual clothing display can be freely matched and selected with customers, so that customers can get an overall visual impression of clothing before purchasing, saving time and energy for customers. The application of European windbreaker in the production of new Chinese style clothing patterns should not blindly copy and imitate tradition, but combine with the aesthetic trend of modern clothing fashion and give it a certain innovative spirit [14]. Under the operation mode of automatic layout, the template maker completes the editing of the pieces to be arranged, and after setting the production template, no intervention is needed. Under the control of the program, the computer automatically retrieves the clothes pieces from the waiting area, and optimizes the discharge in the discharge area one by one until all the clothes pieces are discharged. Modern fashion designers can also apply European windbreaker technology to modern fashion when making fashion samples. However, in order to give full play to the beautification effect of the fashion model making concept of European windbreaker, it is necessary to innovate the traditional crafts, materials and styles of European windbreaker, break through the limitations of traditional forms on the basis of fully considering the aesthetic needs of modern people, and give modern clothing and European windbreaker a variety of possibilities.

4. Conclusion

With the help of computer's powerful storage capacity, the designer can store the design results in the form of files or databases in the computer, and the designer doesn't have to face piles of messy patterns. The development of social economy has promoted the rapid development of garment model
making industry, and the fashion model making concept of European windbreaker has been continuously inherited and improved in this process. When making modern fashion model with the fashion model making concept of European trench coat, we should pay attention to the setting of artistic grade of clothing, the elaboration of cultural connotation, creative skills and the use of modern printing and dyeing technology, and carry out multi-faceted consideration and overall planning. This paper introduces the application status of garment CAD, analyzes the method of manual template making and the operation of using CAD template making from the difference between manual template making and garment CAD template making, and puts forward a new method to solve the practical application problems of garment CAD software in garment enterprises. Various commercial garment CAD systems generally provide designers with one or more of prototype template making, scale structure template making and three-dimensional cutting. The establishment and use of clothing structural component library and information database will enable enterprises to select suitable software systems and establish corresponding information database according to their own situation. The fashion model making concept of European windbreaker has a profound influence on the development of modern fashion model making. The model maker should realize the artistry and application value of the fashion model making concept of European windbreaker, and perfectly integrate the fashion model making concept of European windbreaker with modern fashion model making.

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