

## Computer system design based on modular about clothing

Fengqin Chen<sup>1,a</sup>

<sup>1</sup>Jiangxi Institute of Fashion Technology, Jiangxi, Nanchang, 330201

<sup>a</sup>18235291@qq.com

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**Abstract.** With the continuous development and progress of social economy, people's aesthetic values and the improvement of living standards have been, when the time for costume design also becomes more and more demanding, for clothing computer system based on modular design and mass production brought good opportunities for development.

### The introduction

With the continuous development of society and progress, the garment industry has been very good development opportunities, make clothing computer system based on modular design mechanization can effectively guarantee the quality of the mass production to effectively reduce the cost of producing, receiving cycle has been reduced, at the same time for some personalized customization requirements can also be good to meet, so that it can better to solve the clothing market of supply and demand relations, so in the development of the apparel industry, garment computer system based on modular design will be more widely used.

### The modular fashion design analysis of the significance of computer system

Clothing modular design is main advantage can not only effectively to solve the clothing varieties, specifications of the contradiction between the diversification and specialization of production, improve equipment efficiency and at the same time the introduction of advanced modern production technology process of clothing can provide the necessary conditions, modular design can be achieved in different batch production provide satisfactory products to consumers, such enterprises can effectively implement product diversification and the mutual unification of economic benefit. Costume design under mass customization is done clothing designers and consumers engaged in a concerted, after adopted the modular design, consumers will be able to in a certain range to choose their own like clothing, and garment production enterprise can also through the traditional mass production mode to parts of the clothing standardization production, so that in the process of custom clothing custom links and can effectively reduce the custom parts, products at the time of delivery time can be effectively shortened, product customization cost can be effectively controlled. So garment production enterprises in mass customization process, to reduce the custom cost effectively, improve the speed of custom, the design of large-scale a measure is effective.

### The present situation and future development of clothing design direction analysis

In recent years, many colleges and universities in China to open the dress design major is essentially run under the art department, specialized subject is fashion design. Only a small part of the colleges and universities opened a clothing brand management and engineering and other professional clothing. In the actual learning process, many students are attaches great importance to the pursuit of individual character and artistic expression, for the meaning of clothing design itself is easy to ignore, some students even think costume design and painting actually about the same, so that they in the process of learning knowledge imbalances are likely to happen, in the later actual work don't have a good sense of market, they are designed to work from the will and the actual demand. At a very early age, had been raised in carrying out the clothing education should be and the actual demand of effective market together, it can cultivate talents conform to the actual demand of the market. But now by many college graduates can be found after investigation, they do not have good sense of market, can not according to the actual needs of the market for the collection of

information, can not according to the actual situation of the market for analysis, such clothing can't conform to the design value and the actual demand of the market. Actually clothing designers not only need to know the design, but also should understand design according to the actual needs of the market.

### **The modular clothing computer analysis of the key technologies in the system**

Category of the module content analysis. Category module mainly include the men's shirts, men's suit and lady's suit jacket, ladies shirts, trousers and skirts and so on a number of different styles, be able to select the component module including the sleeves, collar, openings, pockets and garment body and some other important parts of the production, design and process.

Clothing and design process analysis. Clothing production enterprise belongs to a kind of labor-intensive enterprises, standardization, and the extent of systemic is lower, in the clothing production enterprise informatization process of the development of the structure of the clothing products, and in-depth analysis of the production process is the development of the difficulty, only when has the parameters and systematic knowledge of clothing, can only be effective and the information technology together, let the role of modern information technology can fully play out.

Modular fashion design process analysis of computer systems. Modular clothing computer system was designed in the process of need combined with the actual characteristics of garment production, using simple after first and gradually perfect the train of thought to, can choose the clothing production process of common and typical products to carry on the processing technology and design of comprehensive design, such as suits, skirts and shirts etc. Then according to the change of product to increase and broaden the child module modules and components. Computer system can according to the actual production and processing of the order to subsidiary module combination, so as to design the production process, at the same time also can be used to design the production process of local. In modular fashion computer system also has the function of the balance of assembly line design, the function in the production of the beat is calculated and the production time can be compiled according to the number of production line workers, staff proficiency, the number of tools and equipment, processing time, and the layout of the equipment, and so on and so forth, so that it can form a preliminary design of production, optimize and improve at the same time.

### **Analysis of modular clothing main advantage of the computer system**

To effectively shorten production preparation cycle. After using the computer information technology, many traditional production technology of simple repetition labor will be able to use the computer to complete, such not only can avoid duplication of effort, reduce the working strength of workers, at the same time in the process of the technological process for preparation of time also can effectively reduce the establishment can effectively control the cost, to effectively reduce production costs, chances of errors compared with manual operation will be smaller.

The consistency of the production process can get effective guarantee. In the process of design and tailoring related components are basically in accordance with the unified computer program, so you won't get any deviation in terms of size, such clothing can effectively guarantee the consistency of the relevant components, clothing technology and quality will become more beautiful, garment production enterprises and related departments in the process of production management will be more convenient.

In the process of technological design will reduce the dependence on staff. After adopted modular clothing computer design system, technicians will reduce the amount of work, design scheme and the execution of the process of consistency and coherence can be very good guarantee, plays a very important role in the design efficiency.

Is able to provide enterprise management information system of production process data. In guiding enterprise's production and planning, material purchasing schedule, cost accounting process, the basis of a production process data is extremely. Clothing production enterprise after computer design system adopted modular clothing to data for enterprise information integration to lay a good

foundation.

### **Modular fashion design computer system analysis of the practical application**

Computer systems in a modular fashion design, clothing production enterprise can effectively realize the mass customization, which can provide consumers with more personalized service, can satisfy the demands of consumers personalized clothing design. For practical applications of this modular fashion design, now in the world there have been some successful cases, such as the United States IC3D company can provide jeans mass customization services. Modular design let the consumer in the process of selection has more space, but the actual demand of clothing product configuration, and is not a simple combination can direct selection module, also need to modify the consumer choice of modules and check, and then in the local design improvements. Clothing production enterprise in order to be able to provide a better service and clothing, you need to accelerate the garment design and garment production scale, in the actual needs of the process from the following several aspects. You need to take clothing colleges and universities develop talent advantage fully play out, to the student in design categories: building and looking for the cultivation of the clothing structure in common effort, training students' clothing technology design, product design and production scale. Secondly, the government departments at all levels should provide the necessary technical support, in addition to government departments at various levels must start resource and tax cuts, and other economic slow support, should also must organize the relevant experts and scholars held seminars on a regular basis or in-depth technical support and guidance of clothing production enterprise. Third clothing production enterprise need to have a deeper understanding and the understanding of mass customization, the enterprise must strengthen the training of existing talents, and should strengthen the cooperation between industry, the exchange of technical personnel of mutual learning and communication, for the technical personnel of enterprises to provide some opportunities to mass customization of more mature enterprise to study. Finally need for technology innovation, let the remote the fitting and 3 d human body measurement has better application and popularization, improve the degree of modularization design of garment fit, let the consumer can get better meet custom demand, improve the satisfaction of consumer.

### **Conclusion**

In short, in the field of clothing production, adopts the modular way clothing computer system design, can be effective to solve today's consumers demand for clothing personalized and diversified, clothing design can achieve better development in the unceasing innovation, make the sustainable development of garment mass customization was strengthened. But in the actual application of still exists some problems that need to garment production enterprises to pay attention to, should be timely to find and solve the problem of shortage and of practical application, better modular clothing computer system design for costume design services.

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