

الآليات الفنية لعرض تصاميم الملابس الجاهزة ثلاثية الأبعاد عبر الإنترنت

The Technical mechanisms to display the 3D garment designs online

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Summary:

The world attended huge technical development in computer field because of the speed communication; it was introduced on the economic side to market various products beside the possibility of operating sales and purchase. It is called the Internet age economy, which creates new business opportunities. It was easy to communicate electronically between different enterprises for the commercial purposes and exchange information and data.

The use of 3D clothing offers to encourage online marketing, which making it easier for the client to insert his size and see the clothes from all sides. Where the electronic mannequin is designed suitable the design of the client size, which helps in the marketing process.

The research aims to presenting garments with a 3D mechanism, with evaluating the suitability of the terms (material, design, size and color). Plus it includes seeing the details of the clothes clearly through the 3D simulation. It aims to enhance the ability to change sizes according to the consumer by experiment of the clothes in 3D online form before buying. Besides develop the simulation techniques for the fabrics in the 3D system, which based on changes in the (design, fabric, color and the shape of mannequin). The study is concerned with studying the mechanisms of displaying ready-made clothes on the Internet through the virtual simulation and display on the 3D mannequin.

In this research, it was designed a collection of clothes, plus down patterns by the Investronica System and they designed to suitable different sizes from small size (S) to larger size (XL). The materials and the color range were determined for the designs. Using the 3D-Stitcher program to convert the 2D Pattern parts to 3D pieces, to become a simulated dress around the virtual mannequin and displaying clothes from all sides. Then it come the step of the structural design of the site with 3D view using Flash Adobe, and it was set the basic parameters to help the client to choose the models. Besides the ease of use of the menus and side lists to move between different designs.

The result shows by applying the multi-axis radar method confirming the success of the marketing site design followed by performance and interaction with the site variables. The data were analyzed statistically using the analysis of variance to study the significant differences of values between the study axes. The results were as follows:

- There are no statistically significant differences between the opinions of the arbitrators of the questionnaire: "Structural design, the performance and the interaction with the variables of the site."
- There are significant differences between the opinions of the arbitrators in the performance and interaction with the variables of the site.