

Virtual Reality Technology in Textile Printing Design

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Abstract:

Virtual reality can be defined as a simulation of real or imagined reality in a 3D image that can be viewed on mobile devices as the methods of interaction between computer and human body have evolved from this idea to become after a while working to create three-dimensional environments using graphics created by computer and as technology advances, scientists have discovered the physiology of holographic vision that we currently express in this virtual reality, as it is considered to be a user-designed environment But it seems like a reality and it reacts to this reality as a result of the interactions that occur between the virtual environment and the user's senses and responsiveness. Virtual reality technology blends reality with imagination and creates an environment similar to the reality that we live in according to its characteristics. It is to show the static and moving things and it is like in their real world in terms of their personalization, their movement and sensation of the industrial sizes Within this virtual environment through self-control and continuous interaction through which the user can influence the world he sees in front of it and deal with it with the same logic that he can deal with normal life with the possibility of generating and living any environment no matter how real or imaginative, which encourages the creativity and innovation of the user with continuous renewal and modernization, especially because the virtual reality relies on a modern technique that has developed in textile designers. This technology can create new design positions and open doors to sophisticated possibilities but at the same time with many challenges that the beneficiaries of textile design need to recognize. Fierce competition with foreign products that engulf domestic markets requires trying to create contemporary designs of a distinctive innovative nature. This research seeks to apply virtual reality technology as a modern technical dimension. To introduce a new vision, innovation and inspiration new designs fit for use in furnishings fabrics Providing a new style and style of design that works to provide many modern designs with high artistic and aesthetic value that works to upgrade the artistic taste of the consumer through an artistic and aesthetic vision of modern living room furniture designs . With the advancement and evolution of technology, virtual reality technology is becoming increasingly present and its application in digital creations is becoming more widespread. This technology integrates the latest developments in computer science and artificial intelligence. The virtual prototypes provided by this technology are a new way of exploring design and subsequent changes that can take place on the product before it is manufactured in greater quantities or introduced into production . The demand for VR technology in all spheres of life is increasing with the continuous development of the productive process in many different aspects of life, especially science and technology. VR technology has made significant progress and has gradually become a new field of science and technology. At present, the continuous innovation of scientific and technological means has led to the rapid development of design art on fabrics and textiles. In particular, this in-depth and integrated promotion of VR technology in this area has enhanced innovation and development in the entire art design industry, Thus, it gradually penetrates the constraints of traditional concepts and becomes more convenient and accurate. Moreover, the close integration of VR technology with modern art creativity also promotes the transformation of traditional design concepts and even ways of creativity innovation ", making artistic creativity a special new look for textile printing . In the light of this dramatic technological development in all industrial fields, especially textile printing processes, this research focuses mainly on the concept, characteristics and status of the application of VR technology, to explore its positive impact in the field of artistic design of textile printing and highlight one of the latest developments to create virtual models of modern furnishings using VR technology and design computer software .

Statement of the Problem: The problem with research is : The lack of research and studies on the use of VR technology in textile printing is one of the latest technologies of our present time . The customer or consumer is not aware of what the textile product will be whether furnished or clothing .

Objectives : The research aims to : Recognize virtual reality technology and its most important tools . Roll out the advantages of applying virtual reality technology in the field of textile printing . Find new formulas for printed living room furniture designs. Produce printed designs for living room furnishings with rich shape, color and texture.

Significance The importance of research is summarized in : Leveraging virtual reality technology in textile printing that supports design technical innovation and keeps pace with modern development . Contribute to enriching the field of living room furniture design for its contemporary design structure and emphasize the importance of experimentation . This research leads to a new field of vision in front of virtual reality technology to benefit from it in the field of textile printing design in general and the design and printing of living room furnishings in particular.

Methodology: The research is based on: Analytical descriptive approach: By identifying the most important uses and tools of virtual reality and the advantages of this modern technology.

Keywords :

Virtual Reality, Design, Textile Printing, Living Room Upholstery

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