An analytical study on the impact of 3D printing on fashion and clothing

Dr. Marwa El-sayed Ibrahim Abu El-Esaad

Lecturer at the Faculty of Education - Helwan University - Marwaelsayed2014@yahoo.com

Abstract:

Today, we are shocked by the inventions and inventions of these new technologies that astound the minds with their skill. This has made them enter the world of women's fashion to the forefront of women's fashion. At the beginning of the 21st century, designers have created more comfortable and interesting clothes, and the fusion of fashion and industry technology has produced what is described as aesthetically and functionally wearable technology. Three-dimensional printing is one of the modern methods of manufacturing (manufacturing in addition), where a three-dimensional product can be manufactured by the design of the computer and then printed (manufactured) with three-dimensional printing. After studying some of the Arabic and foreign studies which are concerned with applications in Fashion and Clothes, the present study is driven by several factors: - The lack of studies on the impact of three-dimensional printing on Fashion and Clothes at the global level, The scarcity of Arabic studies on the impact of three-dimensional printing on Fashion and Clothes, Lack of knowledge of many design professors and specialists in fashion is intended to print three-dimensional and its impact on Fashion and Clothes. The problem of research is the lack of studies on the impact of three-dimensional printing on Fashion and Clothes at the global level, and the scarcity of Arabic studies on the impact of three-dimensional printing on Fashion and Clothes, which requires more specialized research that benefit this area, as well as benefit from the huge technological development in the industry Especially from the three-dimensional printing technology in the production of clothing and to know its impact on the field of Fashion and Clothes. The aim of the research is to keep pace with the huge technological progress in the industry, identify the three-dimensional printing, its main advantages and disadvantages, identify the most famous designers of three-dimensional clothes, view and analyze models of their work, and study the impact of three-dimensional printing on fashion. The research assumes that using the technology of three-dimensional printing in the production of clothing contributes to opening the door to creativity and fluency for designers to take advantage of in the Fashion and Clothes. Methodology: the analytical descriptive approach. The research deals with the study of three-dimensional printing and its main advantages and disadvantages. The research also deals with the description and analysis of the most important works of designers of three-dimensional clothes. The research Results: the use of technology of three-dimensional printing in the production of clothing contributes to opening the door to creativity and fluency for designers to take advantage of in the Fashion and Clothes, and the study of three-dimensional printing is a new idea and worthy of the research and studies of the arts of Fashion and Clothes design is fertile For further study, keeping abreast of the huge technological advances in the industry and the readiness for the spread of three-dimensional printing techniques, and the study has shown a strong impact of the three-dimensional printing on the field of Fashion and Clothes is helping to provide opportunities for designers such as Iris van Herbine, Kathryn Wales, Danette Peleg and Zwei Gai Dai, to launch their creativity, with positive effects to drive innovation in Fashion and Clothes, and to advance both culturally and economically.

Keywords:

3D printing, Fashion, Clothing

*Paper received 17th November 2017, accepted 26th December 2017, published 1st of January 2018*