

The Application of Technologies of the Future Direction in Contemporary Fashion Inspired by Historical motifs

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Abstract:

The technological developments that the world is witnessing now, constitute a challenge to the identities of societies. There are many questions about the ability of these authentic identities to withstand the effects of technology that has led individuals to establish virtual societies and alternative identities. On the other hand, is it possible to use modern technologies in the process of documenting decorations and historical heritage and giving them new dimensions in harmony with our current era? Creating functional and real fulfillment for the contemporary man and benefiting from that high technology in merging the beauty and originality of the past, developing the present and meeting human needs in the future.

The research aims to use 3D printing technology to embody historical vocabulary and integrate it into contemporary designs that create new creative horizons linking historical movements and arts in the past to the present technology.

Key Words:

Futurism - Wearable Technology - 3D Printing - Art Deco

Introduction & Problem:

The beginning of the emergence of future trends in the field of fashion is clearly seen in the sixties of the last century under the idea of the invasion of space and the possibility of the existence of extraterrestrial beings, to dominate this trend as it controlled all areas of life in the whole world.

As for the historical trend, the study of "fashion history" is one of the interesting approaches in which the development of human fashion stems from the dawn of history.

This research revolves around reading, analyzing and describing the future trend and studying modern technologies related to this trend. The focus was on 3D printing technology because of its many advantages, in addition to choosing a historical period or an artistic movement dating back to a particular historical era, studying and analyzing its elements and then merging it with the technology under study. Through this study, the fashion design process and the innovation process are enriched, and modern technology is used for everything that is new and useful.

The research problem can be formulated in the following questions:

- 1-What is the extent of benefit from 3D printing technology in employing historical decorative units in fashion design?
- 2- What is the extent of benefit from the analysis and study of the previous works of international fashion designers in applying 3D technology and expanding the horizons of creativity in fashion design in the local market?
- 3-Is it possible to create designs with new dimensions and characteristics by integrating two important trends of contemporary fashion trends?

Research Objectives:

- 1- Accommodating the tremendous scientific and technical revolution that extends to various fields and adapting it in the field of fashion design.
- 2- Develop new perceptions of fashion design drawn from both directions: the historical and the future.
- 3- Providing a rich space for design and research based on a combination of historical motifs and modern technology.
- 4- Absorbing the advanced technologies provided by modern technology in the field of fashion design.

Research Methodology:

- Descriptive analytical method.
- Experimental method.

References:

- 1- Amani Ibrahim Hussein: "The future trend as a source of inspiration in fashion design", Master's thesis - Faculty of Applied Arts - Helwan University - 2013.
- 2- Amjad Al-Masad: "The Art Deco Current (1912-1940) – Chapter Six – The Book of "Architecture Theory" from p. 145 – p. 160 – University of Basra 2018.
- 3- Jihan Abdullah Al-Jamal: "3D-Printed Women's Clothing Fabrics" - International Design Magazine - Volume Six - Issue Three - July 2016.
- 4- Ali Abdel Hakim Mahmoud Al Balawali: "3D Printing" -2015.
- 5- Marwa El-Sayed Ibrahim: "An Analytical Study of the Impact of 3D Printing on Fashion and Fashion" - International Design Magazine - Volume Eight - Issue One - January 2018.
- 6- Bradely Quinn. (2002, December 1)." Techno fashion". Publisher: Bloomsbury Publishing.
- 7- Chloé Wren, (2017, June 12). "Fashion in an era of 3D printing". Research Published in Erasmus School of History, Culture and Communication Erasmus, University of Rotterdam.
- 8- Bolton, Andrew, and Nicholas Alan Cope. (September 2016) " Manus× Machina: Fashion in an Age of technology". Published Report Metropolitan Museum of Art.
- 9- Rehab Kotb , (April 2014 "Art Deco architectures as inspiration source in fashion design", International journal of Science Commerce and Humanities .Volume No 2
- 10- Dooley, D. W.(1999)"THE Geographic Diffusion of Art Deco architecture in Delaware" .Publisher: University of Delaware.
- 11- T. Hauff. (1998) Design: A Concise History, 1st edition, Laurence King, London.

12- Michelle Starr. (2014, December 29). Catwalk contraptions: High-tech couture of 2014.

<https://www.cnet.com/news>

13- Gadget Junkie. (2014, December 23). Robotic Spider Dress Defends Your Personal Space.

<https://www.gadgetify.com/robotic-spider-dress/>

14- Lori Dorn. (2015, January 10). Spider Dress, An Interactive Robotic Exoskeletal Dress That Defends Personal Space of Its Wearer.

<https://laughingsquid.com/spider-dress/>

15- Rapid Prototyping with 3D Printing Technology.

<https://www.rapidtoday.com/3d-printing.html>

16- Additive Manufacturing Certification Guidance Notes. (2020, May 18)

<https://www.twi-global.com/media-and-events/press-releases>.

17- Lidia Ratoi. (2015 April 10). "The Spider Dress Anouk Wipprech"

www.arch2o.com/the-spider-dress-anouk-wipprech

18- Iris van herpen from particle acceleration disruptive fashion. (2020, July)

www.ara.worldtourismgroup.com/iris-van-herpen