Designing Interactive Kid’s Clothes as an Educational Mediator Using Electronic Chips

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Abstract:
Children's clothing of all ages is one of the important types that are greatly affected by the quality of design and the uniqueness of design elements, so it must be included in the development. Therefore, this study is concerned with the design of interactive kid's clothes using an electronic mediator and implement some designs by placing some pictures and drawings on them in a way that is suitable with the quality of the electronic mediator and its relation to the pre-school child's learning. And also, the child's interaction by pressing the place of the picture showed what he is wearing and the sound with the interactive light movement. It attracts his attention to modern technology, which helps to raise the value of the technical aesthetic and function of the product with the successful electronic design.

Research Problem: Using the interactive technology that fits with kid's clothes in pre-school (4-6), how to formulate educational and knowledge data in the form of electronic chips, and the merging of electronic chips with the kid’s clothes design in a simple way that can be used It can be used as interesting data recorded by sound and light (cultural information - educational stories).

Objectives: Identify some types of interactive clothes designed for kids that work as an educational and knowledge mediator, implement those designs by printing with various drawings and images in order for the child to interact with them electronically Using an electronic device that makes a sound and light movement by pressing the play button on each image, the chips were manufactured in (I engineer for smart solutions company, Menouf, Zaidan Building in front of the College of Electronic Engineering, Menoufia Government.

Research methodology: the research follows: the descriptive method and the experimental method

Results: The statistical analysis results were verified by obtaining the best answers by applying the electronic chip in the children's clothes designs. The utilization of an electronic device which produces a clear sound with interactive light signals has raised the artistic and aesthetic value of the design.

Keywords: Design - Educational Mediator– Interactive Learning - Electronic Chips

References:
2-Ahmed Mohamed Musa Ahmed: The effectiveness of an interactive multimedia programing developing computer skills for primary school students - a master's thesis - Faculty of Specific Education - Ain Shams University - 2006.
3 -Amal Madi Marei Madi: Studying the effect of electronic advertising elements on increasing the effectiveness of ready-made garment marketing - Master's thesis - Faculty of Home Economics – Menoufia University - 2015.
7 -Al-Hasani, Ola bint Salem Muhammad: The use of multimedia in designing a program for ready-made garments techniques and its effectiveness in e-learning - Ph.D. thesis - Umm Al-Qura University - 2014.
8-Hoda Abdel Aziz Mohamed: The effectiveness of a program using multimedia in learning children’s fashion design skills - PhD thesis Faculty of Home Economics - Helwan University- 2009.
10- El-Sherbiny, Mohamed Saad El-Din: Methods of designing children's electronic magazines on the Internet and their relationship to children's exposure to these magazines - a study in techniques, the public and the communicator - Institute of Higher Studies for Childhood - Ain Shams University - Cairo - 2006.
12- Wafaa Mohamed Khalil: The effectiveness of a program designed to develop the administrative capabilities of secondary school students using electronic media - PhD thesis - Faculty of Specific Education - Ain Shams University.