

Representative level as one of the digital modulation entries in the design process

Prof. Saeed Hassan Abdel – Rahman

Professor at Interior Design & Furniture Department – Faculty of Applied Arts - Helwan University

Prof. Doaa Abdel – Rahman Mohamed

Professor at Interior Design & Furniture Department – Faculty of Applied Arts - Helwan University

Doagoda2018@gmail.com

Researcher. Soha Sameir Ramadan Ismail

PhD Researcher - Interior Design & Furniture Department – Faculty of Applied Arts - Helwan University

Cairo - Egypt

Soha_s2011@yahoo.com

Abstract:

The technological leaps we are witnessing now make the future Will Exceed the limits of the incredible; the continuous technological development cannot be overlooked its effect on interior design and contemporary architectural trends, these Digital technologies became an integral part of the tools of the designer to formulate his ideas in the design process. The performance technique in the design process has gone through different stages which the designer use it to bring out his design from idea to project, Where the initial design was done with sketches that depended on free hand drawing with translucent and then modified and developed several times, Until the computer started the design field in Sixth decade of the twentieth century with two-dimensional and three-dimensional CAD drawing, Accurately and save time and effort, Until we design in a virtual environment that simulates the actual environment , As the role of computers in design has shifted, it is no longer specific to showing and imagining, but a real shift has occurred in the traditional standards of the design process, The computer has turned into an assistant in the design process by offering alternatives to design thought, studying the relationship of design to the general site and environmental and lighting studies of design.

The idea of form in the digital age depends on the computer where it converts digital inputs into drawing outputs This is done through three levels, according to the shape formulation function, Where The stage OF Representation & Modeling represent the elements in two and three dimensions.

The problem of research on the possibility of Explain how to benefit from entering the computer field of architectural and interior design and clarify the extent of the influence of the representative level and its tools on the creative thought of the designer.

Keywords:

Virtual and Web Design Tools - Cyberspace Tools - Artificial Intelligent - Multi-curved surfaces (Nurbs) – Smart building.