How far does Artificial Intelligence (AI) evolve in the pursuit of Interior design as alternatives to traditional tools and their impact on the designer's function?

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Abstract:
This era is described as the age of artificial intelligence. The age of research and modern discoveries, the age of scientific, technical and artistic creativity; where technology was considered an aesthetic creative trait. New artistic trends have emerged, architectural models based on the use of modern technology through the use of computer tools in the field of plastic arts in general and interior design in particular. The computer is a machine that can only form an artwork on its own after the artist's hand extends into the work, and the computer becomes a tool for expressing everything that is familiar in the real world in innovative ways. The potential performance has changed through the dynamic system of endless breeding to shape the artwork, resulting in a creative, innovative and sophisticated processing of computer design. The computer's productive capability; such as analysis, rhythm, repetition, change of shapes and size, light focus and adjusting its intensity, and the movement of elements and color techniques, helps to utilize the technological potential, helping to achieve the best aesthetic effects of the components of the design artwork. Thus, the designer was able to use the computer as a creative tool and a research and experimentation tool to discover all the potential it offers that can be adapted to serve design. The results therefore reflected the designer's ideas and identity and through it achieved the formative values. The multiple aesthetic systems of geometric and organic forms and the visual possibilities of color, line, space, texture and composition were utilized as well as the use of multiple means to serve design ideas, which are versatile and varied, while each design contains different expressive content. We must note that there is an important dimension in the practice of computer design, namely the aesthetic dimension. Computer-produced designs present qualities and characteristics of shapes, elements, colors, lines and contacts with special techniques. Using a computer in the design process is a tool that helps the designer complete work easier and faster. It also facilitates the first design planning process through data and information, storage, design modeling and understanding of the building's surroundings, as well as calculating the full costs and technical specifications required for the completion of construction and implementation work, termination and finishing, and transferring them to the designer to shorten time and facilitate implementation. The relationship between plastic art and modern technology has become one of the main pillars of design production. Digital cameras, laser discs, color separators and computers have taken a unique place and have contributed to opening up many areas to designers and creators.

Keywords:
Artificial Intelligence, AI Algorithms, Virtual Reality VR, Augmented Reality, Metaverse

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