

Digital design technology and its impact on contemporary architecture, in light of digital architectural trends.

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Abstract

The information age had a great impact on the speed of the successive technological development, as it became a part that cannot be overlooked in its impact on architecture, as these technologies have become an integral part of the architectural tools to formulate the design process thought, and architectural creativity has become linked to the integration between human creativity on the one hand and Digital architecture technology on the other hand, as contemporary architecture is witnessing a major intellectual shift that has been affected by the era of digital technology and the information revolution that has imposed itself on the scientific and architectural arenas, and digital architecture and its advanced thinking have brought about a fundamental change in the form of architecture, and in light of the controversies of the preservation of the local identity or the problem of catching up with globalization. There were various reactions related to the extent of change in contemporary design thought and the tools and mechanisms of its realization that led to this transformation, and the role of architects in keeping pace with that development, and the problem is that local architecture was not keeping up with this change in form. It is sufficient, and not to benefit from technological developments and advanced methods, whether in design or implementation, and this confirms the need to know their ideas, components, vocabulary and mechanisms, so that the architect does not find himself on a remote island, or be part of the change without violating the essence of his identity, and the truth of the matter is that the digital revolution It resulted in an unprecedented architecture represented by different architectural trends based on creative and renewable design ideas In terms of form and content, the architect cannot reach it in light of his old traditional tools, as the research aims to shed light on one of the most important topics that the architect is interested in, which is to identify the latest digital technological systems used in contemporary architecture, and to monitor the most important contemporary architectural trends and thought on which it was founded and influenced its architectural form.

key words:

(DA) Digital architecture, (SA) smart architecture, (DR) digital revolution, (DD) digital design, (DIT) digital intellectual trends.