

## استخدام تقنيات ثلاثية الابعاد لتوثيق فنون التراث و الحفاظ عليه

**Using 3D techniques to document art heritage and preserve it**

م.د/ خلود احمد امين حامد العبد

المدرس بكلية الفنون التطبيقية جامعة دمياط

**Introduction:**

Over the years, with the increase in the artistic value of the different heritage of arts, especially the architectural arts, the loss of this heritage is becoming more dangerous, or it is destroyed, its features are obliterated, or its original identity changed as a result of the repeated restoration, therefore it becomes necessary the establishment of strict systems to preserve the cultural heritage.

As a result of the abundance of this historical artistic heritage in Egypt and the difficulty of preserving , and complete restoring and reviving it, with preserving its historical identity and allows successive generations to enjoy and study it with the difficulty of the economic restoration concedes , making it difficult to include all our cultural heritage in plans. It becomes necessary For researchers who interested in preserving this legacy and followers to keep historical tracking , documentation and then preview supply.

With the rapid development of 3D technologies, we have suggested semi-ideal solutions for such problems, and solutions that enhance interactivity, tele- Immersion, rapid spread not only documentation, these give us no choice but preferring the use such technologies.

**Research problem :**

The artistic cultural heritage, especially the architectural arts, is exposed to sabotage or obliteration, and the inability of the competent authorities only to preserve it completely, to restore it and to display it in the appropriate manner, which corresponds to its artistic value and to disseminate these historical values in a wide and effective manner.

The objectivity of the research:

Preserving and reviving artistic cultural heritage using modern technologies that achieve interaction and spread and face economic and temporal constraints

**Research Methodology :**

The research takes the historical analytical approach

**The most important results:**

Developing systems for documenting and reviving traditional arts, especially architecture by using different 3D techniques, thus ensuring their historical identity and ensuring their widespread and interesting publishing.