

Applying the Methodology of Kinetic Art on Contemporary Dynamic Architecture

Prof. Dr. Emad Shafeeq Abdurahman

**Head of the Industrial Product Design Department - College of Design and Creative
Arts. Al-Ahram Canadian University**

Prof. Dr. Rasha Mohammed Ali

**Professor of Architectural Design, Department of Glass, Faculty of Applied Arts,
Helwan University**

Dr. Sara Amr

Lecturer, Department of Glass, Faculty of Applied Arts, Helwan University

Lect. Amira Ibrahim Mohammed

**Demonstrator, Department of Industrial Product Design - College of Design and
Creative Arts. Al-Ahram Canadian University**

amiraibrahim791@gmail.com

Abstract:

The technological progress is the breakthrough that helps some architects to utilize the capabilities presented in this age in order to achieve their dreams in reaching future architecture expressing their needs and adding modern aspects to architecture that never exist before. This also will enhance the approaching towards a virtual new world through which various images can be seen from one place via playing with time and place as well as moving the environment around him to be a kinetic dynamic architecture characterized by transformation and impermanence of one vision over time.

The kinetic is considered as the main form of nature starting from the kinetic of galaxies and planets to the kinetic of electronics inside the atoms and each has an impact on nature. This is considered as an integrated part of the modern architecture as it is the method that is used in expressing the architectural ideas. During the previous century, art witnessed an essential transformations in terms of its concept, approaches and subjects. Moreover, this was the result behind the technological development that contributes in developing many domains such as art in all of its forms such as photographing, sculpture and architecture. In addition, this results in creating modern artistic approaches, that is kinetic art that builds up new structural expressions for the artistic work that focus on the dynamism of this work and moving it from its stability and calling for the interaction between the artistic work and the receiver via the interactive relations between them. We can see that using the kinetics is developed from being used in the kinetic artistic works to reach the existence of a moving building from inside and outside. The dynamic architecture is the creative new perspective that appears in the contemporary architecture. Moreover, it depends in its design on the dynamism of the kinetic and it is considered one of the architecture forms that have the ability to adapt and coincide with the surrounding environment due to its ability to uptake the various changes even the future needs and how to deal with them flexibly in order to achieve the sustainable environment.

Thus, the significance of the research appears in the necessity to acknowledge the philosophy of kinetic in architecture and its reflection on the appearance of the kinetic art and the identity

of the dynamic architecture and the forms of the kinetic it depends on as well as the extent of its effect on architecture.

Keywords:

Applied methodology, kinetic art, dynamic architecture