

The biogeometry philosophy to innovate modern furniture with an Islamic identity

Prof. Ashraf Hussin

Professor of Interior Design and Furniture, Faculty of Applied Arts, Helwan University

ashrahus@gmail.com

Prof. Ola Hashem

**Professor, Department of Interior Design and Furniture, Faculty of Applied Arts,
Helwan University**

o.a.hashem@hotmail.com

Dr. Mohamed Samir El-sawy

Doctor of architecture department, MIU University

mssawy@yahoo.com

Researcher. Riham Mohsen Mohamed Ali

PHD. Researcher at interior design and furniture department , Helwan University

riham_mohsen@hotmail.com

Abstract:-

The Islamic civilization considered as a source of nation's inspiration, Islamic architectural and decorative legacy is an icon of creativity. In which the Islamic decoration involve a lot of philosophic aspects and implicit messages. The Muslim designers depended on abstraction for allusion without the declaring, depending on the compound symbolism of signifier and signified. In which the signifier is the physical existence and the signified is the mental concept. Bio geometry analyses shapes and elements based on the same philosophy as same as the idea of numerical repetition in sending an implicit message for each repetition. The Muslim designers didn't use the decorative shapes and numerical repetition randomly, but they had chosen the suitable one for the nature of the architectural block and the function of the internal spaces. That's what would be highlighted by the study of Moayd Shiekh mosque entrance analysis and the way of benefiting from decorative shapes and numerical repetition with what it bears of implicit meanings in the designing of contemporaneous furniture with Islamic identity. From the viewpoint of energetics, this study led to the creation of three furniture designs based on the analytical studies for Moayd Shiekh mosque.

Key Words:-

Biogeometry – Modern Islamic Design – innovate – identity

Introduction :-

Heritage is considered a main source of inspiration in various fields of arts, and decorations are one of the most important elements that preserved this heritage. They are a true expression of the reality of religious, social, cultural and economic life. The entrance to the mosque was chosen for study, because mosques and mosques are buildings that have a fixed orientation and are a destination The Kaaba, which makes the degree of spirituality high because the Kaaba is linked to the Throne of the Most Merciful, which is above it, and the mosque did not have one function, which is prayer only, but it was studying the different sects inside the mosques, which

made them functional spaces. In contrast to the interior, which was characterized by simplicity, so as not to distract the worshipers, the study will be conducted through 3 stages:

The first stage is a description of the entrance space.

The second stage: analysis of decorations, geometric proportions, and numerical repetitions of the entrance space from the perspective of bio-engineering science.

The third stage is to design furniture pieces based on the results obtained from the analysis.

Research problem :-

In light of this, the research problem can be formulated in the following questions:

- 1- What is the possibility of benefiting from the various formations of decorations based on the analytical study of the entrance to the Al-Muayyad Sheikh Mosque and it is compatible with energy sciences?
- 2- What is the possibility of discovering the vital energy of decorations and benefiting from it in designing contemporary furniture with an Islamic identity?

Research goal:-

The research aims at a philosophical analysis of the vital energy of decorations in Al-Moayyed Sheikh Mosque and its use in creating contemporary furniture with an Islamic identity.

Research hypotheses :-

The research assumes that through the analytical study of the various decorations at the entrance to the Al-Muayyad Sheikh Mosque from the perspective of bio-engineering and the philosophy of numerical repetitions, we can formulate the furniture of contemporary Islam bearing the Islamic identity.

Research Importance :-

The importance of the research is due to highlighting the implicit, not superficial, dimension of Islamic decorations and how to benefit from them in designing contemporary furniture

Search Limits :-

The temporal limit: the era of the Circassian Mamluks, especially the era of Sultan Al-Mu'ayyad Sheikh

Spatial boundary: the decorations of the entrance to the Al-Moayad Sheikh Mosque, which is located on Al-Muizz Li-Din Allah Street, adjacent to Bab Zuweila

Research Methodology :-

The research follows the descriptive analytical method - the applied method

Results :

Islamic decorations carry a philosophical and intellectual connotation and content, and they were not just formal and aesthetic decorations.

- The Islamic designer used the proportions and design foundations that create organized energy within the different spaces
- The Islamic designer used decorations, texts and numerical repetitions appropriate to the function of the building, meaning that the decorations were not chosen randomly.

The numerical repetitions were of special importance in the design of the decorations at the entrance to the Al-Muayyad Sheikh Mosque.

Recommendations:

- Educational institutions such as institutes and colleges that are concerned with the study of heritage should make use of modern sciences in studying Islamic civilization in depth and philosophy and avoiding the formal transfer of decorations.
 - The researcher recommends the concerned parties to study the various Islamic buildings and to devise the intellectual philosophy behind the decorative designs used.
- We also recommend seeking to confirm the Islamic identity with a contemporary footprint.

Refernces:

- (1) muhamad samir alsaawi , altaaqat walughat altakwini: handasat altarkib alhayawii bayn alnazariat waltatbiq , dar alhudaa , alqahirat , altabeat al'uwlaa 2015.
- (2) karim 'amir muhamad , 'asrar altaaqat alhayawiat walhandasat almuqadasat walta'amul , dar 'ahl alhikmat lilnashr , alqahirat , altabeat al'uwlaa 2012 .
- (3) eali bu sakhr , 'asrar alhuruf wal'arqam , muasasat bint alrasul , altabeat al'uwlaa , 2003 mi.
- (4) alsayid aljamiliu , al'iejaz aleilmiu fi alquran , dar alhilal , altabeat althaaniat , 1992 mi.
- (5) 'abu salih al'alfiu , alfanu al'iislamiu: 'usuluh wafalsafatuh wamadrasatuh , dar almaearif , alqahirat , 1969.
- (6) duea' shandiun shandi 'iibrahim , jadaliat alshakl waltaaqat fi aleimarat , majistir , kuliyyat alhandasat , jamieat alqahirat , 2012.
- (7) fahmi ramadan , masjid almuayid shaykh , majistir , jamieat alqahirat , kuliyyat aladab , qism alathar , 1974.
- (8) Ibrahim Karim ,Back to a future to mankind , BioGeometry Consulting , in Egypt 2009
- (9) - <https://www.nihad.me>