

Philosophy of the movement through the distance fourth and his output on the interior design

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Introduction

The fourth dimension (time) is classified as one of the new concepts in contemporary architecture, which is a tool and reference for the "time flow", which is designed to run from the past through the present to the future.

On the other hand, architectural theorists addressed the relationship between architecture and time in the design process, which made time a dimension of the visual perception of the place through the sequential visual movement that creates an intellectual dynamic that generates movement in design, which appears either objectively in the visual field "dynamic" Which is a direct movement, or mentally in the process of perception, which expresses indirect movement, and produces that mental movement ("static") of the order of the plastic elements in the design sequentially and in which the dynamic movement is simulated but at a lower rate, it depends on the ability and imagination of the designer to install The movement of the block and this type is what the subject of the research will be concerned with and what will appear to be the return on the elements of the interior design.

This research was therefore aimed at clarifying the philosophy of the movement and then presenting a set of architectural models and interior design to show the integration between the exterior and interior design of the facility.

Search problem

The fourth dimension (time), time represented by movement is one of the most important modern terms in the design on its objective and mental aspects, and the existence of a new term in the field of design requires a depth of its vocabulary in a way that brings us to a set of foundations that help in the application in the field of interior design in the form In which it is related to human Psychology and physiology developments and affects them in the positive form required by different forms of movement.

In this research we ask:

What is the cognitive concept of the fourth dimension?

- Have previous studies shown the cognitive aspect of the fourth dimension in interior design and architecture?

- What is the meaning of the philosophy of movement in design?

Research assignments

The study discusses a vision for the future, to anticipate a change in the style of architecture in the future, and whether the tremendous technological development at the end of the twentieth century has enabled a tangible change in architecture and interior design strong and dynamic, attractive, interactive and variable, increasing the value of the building in a way in which the designer plays on the influences The mentality (management) that makes it fit into the inner space of the building according to its activity.

Research goals

- Clarify the cognitive concept of the fourth dimension in interior design.
- Using the concept of perception as one side of the fourth dimension as a design input to create a dynamic and interactive composition and the strength of its internal and external spaces.
- Access to the philosophy of movement in interior design.

The importance of research

The mental interaction between the user and the internal design is one of the most important interactions that achieve sensory pleasure and through which it shows the philosophy of movement and its effects on the user.

Research methodology

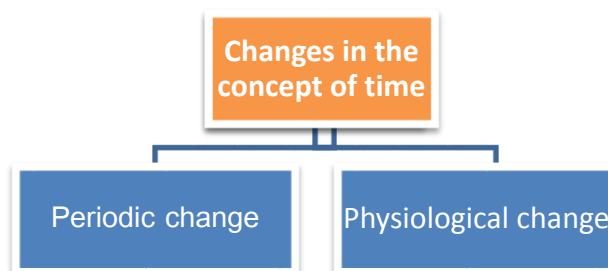
The research follows the following approaches:

- A theoretical study with a descriptive analytical approach to the cognitive concept of the fourth dimension in contemporary architectural and interior design.
- A study based on the methodology of inference of projects and architectural and internal models adopted in their philosophy and determination to apply the mental impact of the fourth dimension (time + movement).

Time as one of the dimensions of the visual perception of space

Studies in various fields have addressed the concept of time as a term that has an impact on the aspects of life, and science continues to reveal to us that time is of great importance, whether it is at the level of physiological impact on humans or on the environment that made it virtual worlds through technology that jumped over time and faded by These are the limits and the distances, so we have to understand and interpret the time in our world and summarize this architecture and interior design.

Man knew the concept of time during its development, by recognizing the change that is taking place in the same place, which was:



Form (1) shows the types of changes that occur through time.

The concept of movement evolves according to time

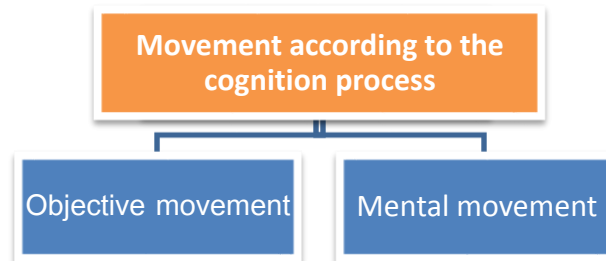
The scientist Einstein said in the relationship of time and movement: "Time is associated with every movement in the universe, no matter and no movement without time, no time without matter and movement, and time begins movement in the universe."

The importance of the time factor in the product of architectural design, which shows its impact through its presence in the system of interaction between it and man and place through a dynamic visual experience.

The concept of movement in design through the process of perception

The movement has two ideas: change, time, change may occur objectively in the visual field (dynamic movement), or mentally in the process of cognition (static movement), or both, and time here enters in all cases, and we have to differentiate between the objective and mental aspects of the movement in design.

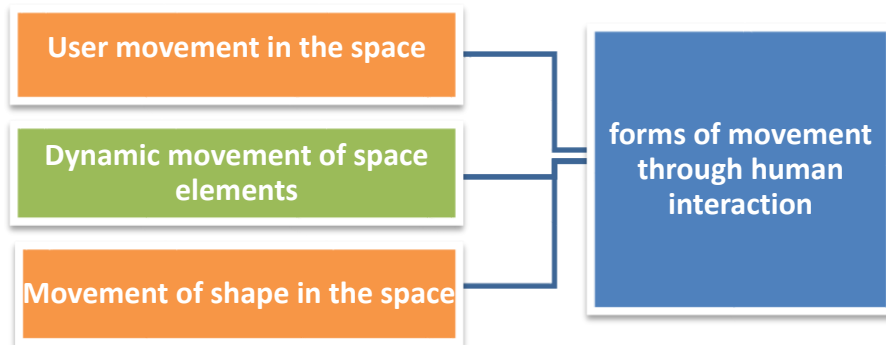
The thought of movement as a cognitive aspect of design can be divided into the following:



Form (2) demonstrates the concept of movement through the process of perception of design.

The shape of the movement according to the user

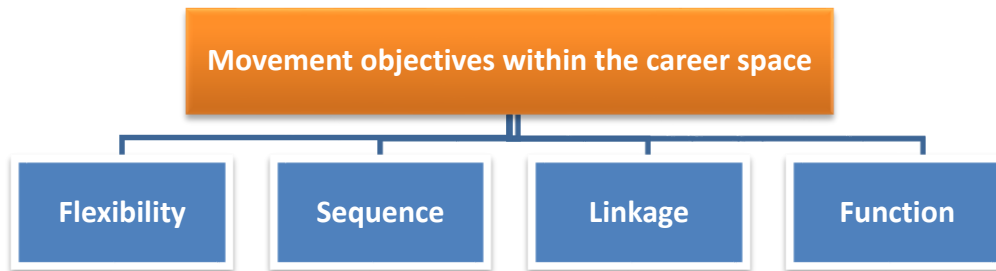
After identifying the types of movement according to the process of perception of the user, we will recognize the form of movement through human interaction with it and can classify the forms of movement through human interaction to: -



form (3) shows different animation forms through user interaction.

In order to identify these different forms of movement, we must identify the objectives of the movement within the functional spaces with which it deals and interacts, which will determine the shape and nature of the movement in which it will appear according to its needs.

The objectives of the movement are summarized within the functional vacuum as in the following form:



Form (4) shows the most important objectives achieved by movement within the functional vacuum through the processors performed by the designer.

A set of models in interior design has been presented and analyzed to illustrate the above points.

The research has reached a set of findings and recommendations, which are summarized as follows:

Results:

- The fourth dimension (time) is the movement which is subject to the user's perception of the design and its elements.
- The concept of movement through the process of cognition is (change, time).
- The return of time is shown through its presence in the system of interaction between it and man and the place through a dynamic visual experience.
- The movement in the design is a philosophical response to the rapid changes of life which has had an impact on architectural and interior design.
- The philosophy of the movement is represented by the forms and objectives of the movement, which appear and crystallize through the interaction between the user and the void.
- Motion forms are classified according to the user's cognitive process according to an objective change in the visual field (dynamic movement), or mental in the cognitive process (static movement).
- The forms of movement within the functional spaces are linked to several objectives (function- binding- sequencing - flexibility).
- The impact of advanced technologies on the form of movement through the formation and organization of interior design elements and furniture, makes the user feel the dynamic of the void through the possibility of a configuration and transformation as desired and the user is an essential element in the dynamic of the vacuum.
- Technological development has made a significant change on both sides of the design (interior and exterior), which has become a strong, dynamic, attractive, interactive and variable design, which has increased the design value of the building.

Recommendations:

-This paper recommends the preparation of specialized studies on the impact of time - the fourth dimension of movement as a result of the process of visual perception and change in the position of the image on architectural design and interior design and the psychological and social impact on the receiver and user, economically and environmentally on Society, not only from the architectural and interior designer's point of view addressed in the study, but at the level of other sciences and disciplines such as psychology, sociology and economics, which gives an integrated picture and understanding of the subject.

- The impact of the vocabulary and other elements of the formation and new concepts that have emerged and developed as a result of the development of society and its sciences, needs and lifestyle must be studied, and the impact on the evolution of the philosophy of the movement in interior design and the new concepts that emerge in the future.

References:

المراجع العربية

- (1) محمود صابر محمد، أحمد: خصائص وسمات العمارة الديناميكية: بحث: جريدة العلوم الهندسية: 2015.
Mahmuod Saber Mohamed, Ahmed, kasaes w semat alemara eldenamikia, bahs, garedit elolom elhandasia, 2015.
- (2) عبد الحميد أمين، أيمن: "أدوات تفعيل بعد الزمن في العملية التصميمية- دراسة في مسارات الحركة" قسم الهندسة المعمارية: ماجستير: كلية الهندسة: جامعة القاهرة: 2010 م.
Abd elhamed amin,Ayman, adwat tafeal boad elzaman fi elamalia eltasmimia- derasa fe masarat elharaka, kessm elhandsa elmemaria, majester, kolia elhandasa, gamet elqahera, 2010.
- (3) الشيخ، رمزي (دكتور)- سلهب، منال: كفاءة أداء الفراغ العمراني السكني المعاصر "مثال تطبيقي مدينة الأذقية: بحث: مجلة جامعة تشرين للبحوث والدراسات العلمية: سلسلة العلوم الهندسية: المجلد 36: ال عدد6: 2014.
Elshekh, ramzy(doctor)- Selhab, Manal, kafaat adaa elfrag elomrany elsakany elmoaser "methal tadbeky madinat ellazekia, bahs, maglet gamet tshren lelbhos w elderasat elalmia, selselat elolom elhandasia, elmogaled36, eladd 6, 2014
- (4) يوسف، محمد - ابراهيم، عبد الباقي: روبرت جيلام سكوت" أسس التصميم ": كتاب مترجم: دار نهضة مصر: القاهرة: جمهورية مصر العربية: 1992 م
Yuossef, Mohamed-Ibrahim,Abd elbaky, Robort gelam skot "oss eltasmem",ketab motargam, dar nahdet masr, elqahera, gomhoriat masr elarabia,1992.
- (5) حمدالله أبو زعرور، روند: أثر التصميم الداخلي في إنجاح محتوى الفضاءات المعمارية الداخلية والخارجية "المباني المنفصلة (الفلل) في نابلس نموذجاً: ماجستير: كلية الدراسات العليا: جامعة النجاح الوطنية: فلسطين: 2013.
Hamdallah abo zaror,roned, ather eltasmem eldakly fi ingah mohtawa elfadaat elmemaria eldakelia w elkarigia "elmabany elmonfasela (elvl) fi nabols namozag, magester, kolet elderasat elolia, gamet elnagah elwatania,felestin, 2013.
- (6) أحمد مشهور، أماني: الأسس والمعايير التصميمية والتكنولوجية لتأثيث المسكن الصحي: ماجستير: قسم التصميم الداخلي والأثاث: كلية الفنون التطبيقية: جامعة حلوان: 2005

Ahmed Mashor, amany, eloss w elmayr eltasmimia letases elmaskan el sehy,magestir, kesm eltasmem eldakly w elareas, kolit elfinon el tatbikia, gamet helwan, 2005

(7) - هندي، أماني احمد مشهور. حبق، اية لطفي زكريا "الاتجاهات الفلسفية لجماليات التصميم الداخلي على العصور"

مجلة العمارة والفنون والعلوم الإنسانية العدد 10 جز 1

Hendi, Amani Ahmed Mashhor. Habq, Aya Lotfy Zakarya "el etagahat el falsafya l gamalyat el tasmim el dakhely ala el esor" Magalet al Emara w al Fenoun w al Elom al Insania El adad 10 el goza 1

المراجع الأجنبية: -

(8) **Andersen, Holly, and Rick Grush** A.D. "A Brief History of Time-consciousness: historical precursors to James and Husserl", To appear in the Journal of the History of Philosophy: 2005.

(9) **Fathy, Hassan:** A.D Natural Energy & Vernacular Architecture. UN University, Tokyo and the University of Chicago ,USA, 1985.

(10) **Bullivant, Lucy:** Media House Project: The House is the Computer14 ,the Structure is the Network ": Architectural Design; 4dSPACE_ interactive: Vol 75 No 1.: 2005.

(11) **Harris Riversdale, Yolande:** (" ,From Moving the Imge to Moving Architecture- Adiscussion of the "Space-Time" phenomenon of the twentieth century, with particular reference to architecture, moving img, and music. "Grant Chester Cambridge England: 2000 AD.

(12) **Zellner, P.:** AD Hybrid Space: New Forms in Digital Architecture: Thames andHudson Ltd: London: 1999.

المواقع على الشبكة الدولية: -

(13) https://www.archdaily.com/791020/apartment-in-bucharest-rosu-ciocodeica?ad_medium=gallery_4/2019

(14) http://ar.wikipedia.org/wiki_4/2019

(15) https://www.kavyab.com_3/2019

(16) https://livanator.com/go-bold-with-color-in-2015/_5/2019

(17) http://borackabn.com/line-interior-design-G39208/_4/2019

(18) https://www.ebay.com/itm/Modern-Abstract-Red-White-WALL-MURAL-PHOTO-WALLPAPER-2814DK-/192091408672_5/2019

(19) https://www.homewallmurals.co.uk/wall-mural-wallpaper-black--white-swirl-2347-p.asp_5/2019

(20) https://medium.com/learning-about-interior-design/principles-of-interior-design-c2a8ba7d7f22_3/2019

(21) https://www.michigandesign.com/designers/room-service-interior-design/751df85e-17d3-4612-9b72-938b5f3b2769_3/2019

(22) [_https://dynamicpost.wordpress.com_4/2019](https://dynamicpost.wordpress.com_4/2019)

- (23) <http://www.thoughtsbypc.com> 4/2019
- (24) <http://www.greekarchitects.gr> 5/2019
- (25) <http://www.zaha-hadid.com/architecture/stone-towers/> 5/2019
- (26) <https://www.3indubai.com/wp-content/uploads/2012/09/110.jpg> 5/2019
- (27) <http://www.home-designing.com/2013/06/modern-house-interiors-with-dynamic-texture-and-pattern/modern-neutral-dining-room-kitchen-2> 4/2019
- (28) <https://asiandesignrmit.files.wordpress.com/2014/03/space-saving-hong-kong-flat.jpg> 3/2019
- (29) <http://architect-alharbi.blogspot.com/2016/01/4.html> 3/2019
- (30) <https://martineclaessens.com/blog/2016/9/25/decorating-with-stripes> 5/2019
- (31) <http://rizalbm.blogspot.com/2018/11/20-awesome-desain-rumah-cad.html> 4/2019
- (32) <http://architect-alharbi.blogspot.com/2016/01/4.html> 4/2019
- (33) <http://rizalbm.blogspot.com/2018/11/20-awesome-desain-rumah-cad.html> 5/2019