

Ministry of Higher Education and Scientific Research  
University of Baghdad -College of Engineering  
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# **The Information Technology and the Contemporary Urban Space**

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### **Abstract:**

The research discusses (the contemporary urban space) with its relationship to one of the modern concepts of space which has begun to take its importance in the applied aspects of architecture recently without focusing on them in architectural studies and researches ,where they are mentioned without having their own method ,and that is the concept of (the virtual space).

The research's problem is determined by the minimized knowledge about what are the contemporary urban spaces in the light of changes that are associated with information technology, and its reflection on the concept of space-place, as well as the minimized knowledge about the concepts of virtual reality and virtual space' possibilities that form the features of the contemporary urban spaces, and its integration with the determinants of place to produce an architecture with a media feature. The most important objectives of the research was to investigate the newly renovation in the concept of space in general, that lead to emerge the contemporary urban space in specific and conclude its indicators. Also to discover the difference between space and place, where the first is the opportunity and the second is the understood reality. The research hypothesizes that the entrance of the information technology to the urban structure has firstly affected the intellectual structure and has secondly been reflected on the physical product as an inventible necessity for the process of change and development through time. Thus, the research hypothesizes that the change and development that occur on the formation contemporary urban space's features, one of its reason was the information revolution and the entrance of the information technology in its design possibilities which led to integration between physical aspects (place) with the spatial determinants (space) to produce the intelligent space, presenting new image of architecture in the twenty first century that has mass (media) characteristics.

In the light of this, the research has consist of chapters, chapter one includes the urban structure and urban space, where it studies the traditional urban space, its forms, sequences through different cultures till the contemporary urban space. Chapter two includes the change in the concept of the space in the age of information revolution, it emphasizes on the emergence of the new thoughts and terms in design and architecture. Chapter three is concerned with the urban spaces in the age of information technology, this chapter demonstrates how the applicable reflection of entrance of technology on urban space and the outlet indicators for theoretical frame. Chapter four



consists application on urban spaces in the age of information technology, where application done by theoretical frame indicators which is determined in chapter three at group of contemporary urban space projects ,to go out with conclusion specified in practical application .

The research has distinguished some of conclusions and suggestions and the most important one: there is an aspect of urban structure today –which is associated with social change- to establish and emersion the virtual space, in the past change was occur in physical structure, and now a day the change is phenomena to a structure not physical and this phenomena present the newly relationship between space and society. There is a state of dominance of media, where we feel it, it is like nature, and it is part of reality.

The research suggests the necessity to consider the importance of the virtual space's concept as methods of thinking and application and activating potential in revitalization urban space, and establishment political and strategies specified in the thought of information and communication technology as a new dimension in city participation in the sustainability of cities. And important necessity to add the characteristics of development and modern image to our Arab and Iraqi cities to express the spirit of the century.