

Architectural Requirements for Optimizing Outdoor Living Apartments by Environmental Psychology

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Abstract

With the population growth and shortages, as well as rising land prices in developed cities, the construction of apartments and residential complexes is inevitable in order to provide affordable housing. On the other hand, living in high-rise apartment buildings has reduced the connection of residents with open space. This could reduce the interaction and vitality of the inhabitants and leave negative effects on the individual's social relationships. Thus, considering the lack of open spaces in creating the ideal residential complexes, there are some architectural approaches to open space optimization. The purpose of this research was to identify the open spaces of residential complexes to explain the architectural requirements for outdoor space optimization in order to enhance the vitality and social interactions in the neighborhood. Therefore, the present study used descriptive-analytic research method to study the architectural requirements of spaces in optimizing the open space of residential apartments by promoting the vitality of social interactions in the neighborhoods. In this case, two examples of residential complexes in Tehran were studied.

Key words: outdoor optimization, residential apartments, vitality promotion, social interactions, neighborhood units

1. Introduction

Limitations in large cities have led to the expansion of residential complex construction and the reduction of private courtyard share in contemporary architecture. In addition to providing lighting and lighting for indoor spaces and natural ventilation, outdoor living space is an opportunity to connect more with nature and a place for social interactions. Given the limited space of the residential units and the traditional presence of the courtyard in Iranian life, open space is crucial for expanding the function of the interior and its relationship with the outer space. Therefore, reviewing and recognizing the current status of open space is the basis for a more informed design of open spaces in the future (Oini Far and Ghazizadeh, 2010).