

عنوان مقاله:

Neighbourhood Design Using Parametric Design Method Based on the Patterns of Traditional Urban Fabrics in Kashan city

محل انتشار:

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خلاصه مقاله:

Complexity and uncertainty of cities raises doubts about static and solid decisions in the field of Urban Design. Therefore, objective of Urban Design needs to move from static design of a specific layout toward complex and dynamic design of generic solutions. The structure of environmental information has the potential to transform to design parameters. In this paper, the potentials of Parametric Urban Design Method are investigated. Then a neighborhood is designed using parametric design method. The design area is a neighborhood in Iran, Kashan city. In this way, we consider some important aspects including the urban structure of Kashan city, fragmentation between new and old urban structures affected by modern thoughts and the creation of the plans, which are compatible with contexts. It would help designers to create new regions as a connector and simultaneously coordinator of old and new urban fabrics. In this study, the main elements of design have been developed based on Lynch and Alexander theories, and then by defining parameters in the Rhino software – Grasshopper plugin- a flexible scheme for the neighborhood is designed. The resulted prototype is based on context's information and complex interrelation between parameters. The creation of final scheme is in coordination with existing urban fabric, so the process would be recursive and public participation in the urban design process would be possible. The approach shown here is responsible for creating an environment, which enhances awareness of the effects of design decisions throughout a progressively evolving urban design process.

کلمات کلیدی:

parametric urban design, urban modeling, flexible process

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