Education, Design and Practice – Understanding skills in a Complex World

• Paper / Proposal Title:
Architectural Design Model and Prioritization of Design Principles for high Schools Based on an Educational Program (Scope of Study: Iranian high schools)

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N/A

• Abstract (300 words):
This study developed a multidimensional model for high school design in Iran and prioritized the design principles based on the Iranian educational program. This model has six main aspects: formal, functional, psychological, socio-cultural, technological and ecological. The architectural principles have been extracted from the studies about school design after 1990s. Some of these principles have been proposed based on research about the impacts of educational spaces design on teaching and learning, and some are proposed by the architects who work in this field based on their studies and experiences. The priorities of the architectural principles of the model were evaluated in a closed questionnaire by LIKERT scale. In each question, the importance of each design principle was asked. The architects of the “National Organization of Development and Renovation of Schools” in Iran filled the questionnaires. The data were analyzed by Exploratory Factor Analysis method, which is a method for discovering the factors and the correlations among them and deriving models based on the data collected through the questionnaires. Also it is useful to find out the most
important items among the sets of items. Based on the data analysis, the final model for high school design and the prioritization of the principles were concluded. This study shows that the priorities for Iranian designers are different from some of the studies: while the formal aspect has the first priority for the designers in Iran followed by the ecological aspect, the functional and technological aspects are not rated high. While many recent studies emphasize on the role of technology in changing the whole design of schools, the Iranian designers seem not to regard this aspect that much important, the same differences are shown in the functional aspects. But the importance of ecological aspects is emphasized like many studies.

• Author(s) Biography (200 words each):

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Publications:

Hosseini, Mahdieh; 2014; Prioritization of High School Design Principles and Criteria; not published yet (under journal editorial board judgment).

Hosseini, Mahdieh; from Dec. 2009 to May 2013; Series of articles about Housing Design Plans and Renovation; Manzel interior design magazine; Tehran; Iran.

Hosseini, Mahdieh; 2011; Safety and Security in Educational Spaces; Manzar E-magazine.

Hosseini, Mahdieh ; Ziaee, Masoumeh ; Ghafouri, Atieh ; 2010 ; Ornaments of Kerman architecture in 13th & 14th century, Published in National Conference of Islamic and Iranian culture , Research Center of Islam and Iran Culture.

Ghaffari, Ali ; Hosseini, Mahdieh ; 2008 ; Developing an interdisciplinary model for learning-centered high school in Iran; Published in National Conference of "Iranian School ,Iranian Architecture " ; National Organization of Schools Renovation, Development and Mobilization.