

Evaluation of Suitable Housing System for Adoption in Addis Ababa

Authors : Yidnekachew Daget, Hong Zhang

Abstract : The decision-making process in order to select the suitable housing system for application in housing construction has been a challenge for many developing countries. This study evaluates the decision process to identify the suitable housing systems for adoption in Addis Ababa. Ten industrialized housing systems were considered as alternatives for comparison. These systems have been used in a housing development in different parts of the world. A relevant literature review and contextual analysis were conducted. An analytical hierarchy process and an Expert Choice Comparion platform were employed as a research technique and tool to evaluate the professionals' level of preferences with regard to the housing systems. The findings revealed the priority rank and characteristics of the suitable housing systems to be adapted for application in housing development. The decision criteria and the analytical process used in this study can help the decision-makers and the housing developers in developing countries make effective evaluations and decisions.

Keywords : analytical hierarchy process, decision-making, expert choice comparion, industrialized housing systems

Conference Title : ICACED 2018 : International Conference on Applied Civil Engineering Design

Conference Location : New York, United States

Conference Dates : June 03-04, 2018