

عنوان مقاله:

How can a green-safe building be assessed by performance criteria

محل انتشار:

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نویسندگان:

Alireza Motaghifard - *PhD student of Industrial Engineering Department, Industrial and Mechanical Engineering Faculty, Islamic Azad University Qazvin Branch, Qazvin, Iran*

Manouchehr Omidvari - *Associated professor, Safety Industrial Engineering Department, Industrial and Mechanical Engineering Faculty, Islamic Azad University Qazvin Branch, Qazvin, Iran*

Abolfazl Kaazemi - *Assistant professor, Industrial Engineering Department, Industrial and Mechanical Engineering Faculty, Islamic Azad University Qazvin Branch, Qazvin, Iran*

خلاصه مقاله:

Background and Objective: HSE performance evaluation is one of the important issues for construction industry stakeholders today. The gap between the actual performance of the building and its expected performance in the HSE area is one of the key issues in the life-cycle of the building. Given the fact that the building's HSE performance directly affects the health of stakeholders, it further highlights its importance. Creating models that can identify the factors influencing the performance of the HSE performance of the building and examine the importance, prioritization, and leveling of each criterion on building performance can be effective in solving the actual performance gap with the expected performance of the building. Accordingly, the purpose of this research is to provide a conceptual model in determining and leveling the effective criteria in assessing the performance of a building's HSE with an approach to safety, health, environmental protection, energy saving, beauty, and welfare. **Methodology:** This is a survey study which is cross-sectional. A questionnaire and expert opinion were used for data collection. Interpretative Structural Modeling (ISM) was used to level the criteria affecting the building performance. The MICMAC method was employed to cluster the factors affecting building performance. **Findings:** Findings indicated that environmental and health protection measures in the mechanical field and energy saving in the electrical field are the most important factors affecting the performance of the HSE of the building, which needs to be emphasized. **Conclusion:** Creating models and structures that can measure building performance with the approaches of safety, health, environmental protection, energy conservation, beauty and welfare can be effective in evaluating HSE performance of buildings. These issues not only consider the building in terms of beauty and comfort, but also are considered by the construction industry in terms of safety, health, environmental protection, and energy saving indicators.

کلمات کلیدی:

Building HSE Performance, Interpretative Structural Modeling, Construction Industry, Environment

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