

عنوان مقاله:

Decision-making for risk analysis in hospital construction projects based on Shannon entropy

محل انتشار:

پنجمین کنفرانس بین المللی و ششمین کنفرانس ملی عمران، معماری، هنر و طراحی شهری (سال: 1402)

تعداد صفحات اصل مقاله: 12

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خلاصه مقاله:

Risk management has always been a concept that project managers pay special attention to. Accordingly, it has been considered from various perspectives and examined in the form of project management systems or independently as one of the basic processes. Based on these facts, considering performance indicators, quality, customer satisfaction, time, cost, and their impact on risk management and evaluation, and at the same time, dealing with the concept of management and technology development, especially in process industries, can have results that their impacts on project designs and foundations are evident. The present research has been conducted to identify and evaluate the risks existing in the process of hospital construction projects. The research method is applied in terms of purpose and is qualitative and quantitative in terms of implementation method. In this study, a researcher-made questionnaire was used to collect information. The statistical population of this study, using Cochran's formula, includes contractors, consultants, managers, and academic and executive experts familiar with the principles of building information modeling and sustainable development. The validity of the questionnaire, in addition to being confirmed by identified experts, their reliability was also measured using Cronbach's alpha. This study counted the identified factors and their evaluation using the Shannon entropy technique. In this study, ۲۵ factors have been identified that are classified into six indices. These indices include stakeholders, foreign, environmental, technical, economic, and unforeseen indices, the impact and evaluation of the factors of the mentioned indices and the results obtained from the scoring of these indices have been examined in detail.

کلمات کلیدی:

Shannon entropy, risk assessment, construction of hospital projects

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<https://civilica.com/doc/1720797>



