

عنوان مقاله:

An Approach in BOT Project Selection Based on Fuzzy QFD and TOPSIS with Consideration of Risk

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خلاصه مقاله:

Build, Operate and Transfer (BOT) is an approach the private sector utilizes to obtain a granted concession for completing a specific project independently. Quality function deployment (QFD) is a powerful tool for improving product design and quality, and procuring a customer-driven quality system. In this paper, by using fuzzy QFD and TOPSIS techniques we propose a new method for project selection problem in BOT projects by considering risk factors and their effects on four important perspectives in projects. We use fuzzy QFD to calculate weight of each risk factor; then by using fuzzy TOPSIS algorithm, we rank BOT projects calls for massive development of infrastructures and assets. While this brings opportunities to project stakeholders, employing effective risk management techniques coped risks associated with variable construction activities is of importance to implement the projects aligning with project objectives. By using a real case we illustrate the stages of our methodology

کلمات کلیدی:

BOT projects; Project Risk Management; Project selection; Fuzzy TOPSIS; Fuzzy QFD

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