

عنوان مقاله:

A Multi-Objective Mathematical Model for Project Risk Management by Considering Sustainable Development Requirements: a Case of Iran Fuel Conservation Company Projects

محل انتشار:

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خلاصه مقاله:

Experiences in development have proved that putting the economics in the spotlight with no attentions to social and environmental issues may cause critical situations for development path. Projects portion in economy is growing, saying that project and risk management (in following) is highly important for project success. Innovation of this research is determining of sustainable development dimensions (economy, society, and environment) in risk management process, which have not yet considered. In risk assessment phase, the risk number have been calculated due to the occurrence probability and three dimensional risk effects (negative or positive) on society, economy and environment. For selecting optimal solutions for risks, considering sustainability concept, project mathematical modeling method have been used in Iran fuel Conservation Company. In this model, project goals (cost, quality, time) are defined as objects, while three dimensions of sustainability (Cost factor, Stakeholder Satisfaction factor, Pollution factor) have defined as constraints. The multiobjecting optimization model is including minimization of costs, quality variation and delays, with maximum extra budget, change in society, change in environment as constraints is acceptable for project organization. This model is solved using ordinary and effective Weighted Sum approach, and its Pareto solutions will be presented to decision makers

کلمات کلیدی:

Multi-Objective Mathematical Programming, Sustainable Development, Sustainability, Project Management, Project Risk Management, Respond to Risk

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