

عنوان مقاله:

Tehran Subway Construction Risks Assessment Using AHP, DEA and TOPSIS Methods

محل انتشار:

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خلاصه مقاله:

Increasing population growth and increased traffic in the metropolitan cities is an undeniable reality. Therefore to improve urban traffic conditions, construction of subway lines is a priority for macro policy of development, But because of the special working conditions in underground tunnels, tunnel construction always faces many hazards that lack of attention to them can damage the project. This approach uses integrated method (AHP-DEA-TOPSIS) for risk assessment. In a study of subways in Tehran, 11 overall risk and 79 factors associated with these risks were identified. Also 7 main indicators of probability and severity include mismanagement, poor performance of HSE in workshop, personal factors, financial consequences, timing consequences, physically consequence, the impact on the quality of the project were used. Finally, these risks were evaluated and based on priorities, strategies to prevent the risks presented.

کلمات کلیدی:

Subway, Risk assessment, AHP, DEA, TOPSIS

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