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# Project risk management using multiple criteria decision-making technique and decision tree analysis: a case study of Indian oil refinery

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## Abstract

This study proposes an integrated analytical framework for effective management of project risks using combined multiple criteria decision-making technique and decision tree analysis.

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Additionally, decision tree analysis allows modelling various options for risk response development and optimises selection of risk mitigating strategy. The proposed risk management framework could be easily adopted and applied in any project and integrated with other project management knowledge areas.

Keywords: risk management cause and effect diagram the analytic hierarchy process decision tree oil refinery construction project

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