

Identify and sort the risk factors for knowledge-based companies by combining multiple criteria decision making techniques (Case study: knowledge-based companies in the Science and Technology Park Tabriz)

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Abstract

The aim of this study is a ranking of risk factors in knowledge-based companies. Risk factors in knowledge-based companies have been extracted from the different and authentic papers and after verification by experts, related questionnaire is designed. Then, using questionnaire and multi-criteria decision-making techniques by combining methods, DEMATEL, Network Analysis Process and VIKOR in a fuzzy environment marked degrees of importance of these factors is ranked. The main research tool is a questionnaire which its validity and reliability of research by experts with Cronbach's alpha coefficient was proved (0.86). The population of these research managers, knowledge-based companies in the Science and Technology Park Tabriz by using a random sampling of more than 10 active projects selected in 1394. The highest risk of external factors and financial risks affecting knowledge-based companies were in business. Indeed, knowledge-based companies of the Science and Technology Parks should be how to deal with the risk of their working agenda.

Keywords: ANP, DEMATEL, Knowledge-based companies, Risk, VIKOR.

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