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Identifying, Evaluating and Determining of The Most Important Predictive Variables of Safety Situation Awareness Using Fuzzy Logic Approach

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چکیده (۳۰۳ کلمه):

Introduction: Safety situation awareness is an important element affecting operator's reliability and safety performance, which is influenced by various variables. Identification of these variables and their relationship will play a major role in optimizing control measures. The present study was conducted for this purpose.

Material and Methods: This study was based on the situation awareness, expert's opinions and use of a Fuzzy multi-criteria decision-making method. Triangular fuzzy numbers was used to quantify the experts' judgments and to reduce the errors that result from their' subjective evaluation on the relationships between the variables .

Results: The results showed that the studied organizational variables together with "safety/g knowledge and "experience in job/specific task" are the most important predictive variables of situation awareness .Among the organizational variables, "Organizational Safety Attitudes", "Safe System Design" and "Education" are the most important determinants of safety situation awareness.

Conclusion: Fuzzy logic was used to aggregate expert opinions to determine the most important variables affecting situation awareness and their cause-effect relationships. Organizational variables are the main determinants of situation awareness. To improve situation awareness, the best results are obtained by modifying effective root variables, i.e., organizational variables and some individual variables.