On Fuzzy Qualitative and Quantitative Softgoal Interdependency Graph

Abstract

Non-Functional requirements serve as criteria for the selection and prioritization of software requirements. The objective of this paper is to propose an efficient method for the prioritization of non-functional requirements. In this paper, we use L^{-1} R^{-1} inverse function arithmetic principle and graded mean integration for the elicitation of decision maker's weight for the qualitative and quantitative softgoal interdependency graph to model the non-functional requirements. Finally, the utilization of proposed method is demonstrated with the help of an example.

References

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Index Terms

Computer Science Fuzzy Systems

Keywords

Softgoal Interdependency graph (SIG) Non-functional requirements (NFR)
Trapezoidal fuzzy numbers (TFN)

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