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

- Gruia-Catalin Roman, A taxonomy of current issues in requirements engineering, IEEE
On Fuzzy Qualitative and Quantitative Softgoal Interdependency Graph

- L. A. Zadeh, Fuzzy set, Information and Control 8 (1965) 338–353
Index Terms

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Softgoal Interdependency graph (SIG)  Non-functional requirements (NFR)
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