



**RESEARCH ARTICLE**

# **A Fuzzy Improved Association Mining Approach to Estimate Software Quality**

Sonakshi Rana<sup>1</sup>, Rahul Kumar Yadav<sup>2</sup>

<sup>1</sup>CSE, PDM Bahadurgarh, Haryana, India

<sup>2</sup>Assistant Professor, CSE, PDM Bahadurgarh, Haryana, India

<sup>1</sup> [sonakshirana@yahoo.com](mailto:sonakshirana@yahoo.com); <sup>2</sup> [er13rahulyadav@gmail.com](mailto:er13rahulyadav@gmail.com)

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*Abstract— Software Quality analysis is one of the major criteria required to analyze the software life as well as software reliability. Software quality is been defined under different parameters. Software risk analysis is one such criterion required to identify the software reliability. When software is planned or being developed according to the type of software as well as the efforts required to develop the software collectively defines the software risk. Such as the availability of the required software, hardware, manpower all are the predictive risk factors. In this work, these all risk factors are defined under the fuzzy rule. Based on this fuzzy estimation to the some weightage is been assigned to these all risk factors. Finally, the aggregative risk is been computed to predict the software reliability under the risk vector. The presented work is capable to identify the software risk under three levels. These three levels are individual vector risk, sub category risk and the aggregative risk.*

**Key Terms: - Software Risk; Reliability; Fuzzy Logic; Weighted Approach**

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