

RESEARCH ARTICLE



A Fuzzy Based Model for Software Quality Estimation Using Risk Parameter Assessment

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Abstract—Software Cost Estimation is the challenging factor in project management. Accurate cost estimation helps to complete project with in time and budget. Due to this behavior of the project it is considered as a risky project .Under these conditions risk management is mandatory. Large numbers of estimation models have been proposed over the last 30 years. Constructive Cost Model (COCOMO) is one of existing model, which is used for estimation and also for fuzzy based analysis. In this paper, we are using fuzzy based approach which is used for software quality estimation. Fuzzy Logic was primarily bestowed in to check however rule based system can solve the software effort estimation drawback. The aim of this paper is to analyze the process, product and platform based attribute by applying rule based system. Analysis is divided in to two stages; the fuzzification of individual risk and a collaborative analysis with fuzzy modeling. These will be performed to conclude the software quality.

Keywords- Fuzzification; COCOMO; SLIM, Function Point; Risk; Risk attribute
