

Comparing Cohesion Metrics on Various Criteria's for Validation

Nikita Rastogi¹, Ritesh Rastogi², Sachin Agrawal³

ABSTRACT

Several of the class cohesion metrics have been introduced till now by various researchers. Class cohesion metrics are used by software developers to check the quality of their software and to restructure poorly designed classes. It is difficult to choose a cohesion metric for evaluation of software quality. Our broader aim is to discover good cohesion metrics by deeper analysis which can be used for the analysis of software design. For this purpose in this report comparison of several cohesion metrics on multiple criteria is carried out. By this analysis flaws of various cohesion metrics are found. Cohesion metrics can be compared on many different criteria as strength of cohesion, disparate components in a class, divergence, complexity, range, and size sensitivity. In this paper various cohesion metrics are validated by comparing them against strength, disparate and divergence.

Keywords:-Object-oriented class, software quality, class cohesion metric ,class cohesion.