Abstract

Aspect-oriented system is a new emerging technique of software development that provides mechanism for implementing cross-cutting concerns. Quality assessment of important characteristics like cohesion, coupling, complexity, reusability, maintainability, etc. is fairly unexplored for Aspect-oriented systems. Through this research work we have tried to find out the correlation between some of the quality characteristic of aspect-oriented system. We have established correlation between cohesion and complexity, Cohesion and Changeability. Then we have find out that whether cohesion metric can be used as indicator for assessing complexity and changeability of aspect oriented system. Then will find out that whether cohesion metric and complexity can be used as indicator for assessing reusability of aspect oriented system through finding the correlation between cohesion and reusability, and complexity and reusability.
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Correlation between Various Quality Characteristics for Aspect-Oriented Systems

Index Terms

Computer Science  Software Engineering

Keywords

Correlation  Cohesion  Changeability  Complexity  Reusability