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Abstract

Dependency analysis is advantageous technique that has many applications in software engineering activities. In component-based system (CBS), Dependencies can solve implicit problems such as integration testing, regression testing, change processing, component reusing and version control. In order to promote testing of the CBS, it is necessary to analyze the mutual impact between components and form a description of dependencies. During the present time dependency analysis is one of the important research fields in CBS. This paper presents a minimum spanning tree approach to analyze dependency in Component Based Systems (CBS). First we calculate the dependency of each component using Minimum

Spanning Tree in component based system and then calculate the dependency of each component using Analytical Hierarchical Process. Finally we calculate the Correlation Coefficient of the two techniques.

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Index Terms

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Keywords

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