

## **GRAPHICAL APPROACH FOR PROGRAM SLICING CONCEPTS**

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### **Abstract**

In the software development life cycle, the identification of errors/bugs play an important role as the final product should be bug free before it is delivered. To achieve this, program slicing is one of the method to identify these kinds of errors. Component mining is the extraction of executable slice from source code, which satisfies a specific use case or a set of use cases and provides a standard component interface for its use. Program slice is having wider range of applications that include debugging, testing, Maintenance, code understanding, complexity measurement, security etc.. This program slice can be achieved through the concepts of graph theory. A connected graph and its structural arrangements are used to identify the different slicing types namely static and dynamic slicing

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**Keywords:** slicing, slice, program dependence graph, Tutee graph, vertex.