

## **75. FOCUSING CROSSCUTTING CONCERNS VIA RANDOM WALK APPROACH USING MINING APPLICATIONS**

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In the present data warehousing environment schemes there are lots of issues in data maintenance scheme and penetrating techniques. The random walks are carried out on the thought diagram took out from the program sources to work out metrics of “utilization” and “aggregation” for each of the program constituent. It proves that the effectiveness of performance in retrieval tasks and data maintaining procedures. The outcome confirms previous claims regarding the unacceptable performance of these systems and underscores the need for standardization as exemplified by the community of users when evaluating these retrieval systems. The Random Walk produces the secured maintenance of data and Crosscutting Concern avoids the data duplication and data dependencies. We implemented the algorithm as the Prism CC miner (PCM) and evaluated PCM on Java applications ranging from a small-scale drawing application to a medium-sized middleware application and to a large-scale enterprise application server . Our quantification shows that PCM is able to produce comparable results (95% accuracy for top 125 candidates) with respect to the manual mining effort. PCM is also significantly more effective as compared to the conventional approach.

Keywords— Random Walk, Crosscutting Concern, Code Duplication, Aggregation, CC Mining.

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