**SOFTWARE PLAGIARISM DETECTION IN MULTITHREADING USING MACHINE LEARNING**

**ABSTRACT**

Software plagiarism, an act of illegally copying others code, severely affect both open source communities and honest software companies. The recent incidents include the lawsuit against Verizon by Free Software Foundation for distributing Busybox in its FIOS wireless routers, and the crisis of Skype’s VOIP service for the violation of licensing terms of Joltid . Unfortunately software plagiarism is easy to implement but difficult to detect. Today software birthmark approaches are available, are applicable only to sequential programs. Existing birthmark generation and comparison are no longer applicable to modern software with multiple threads.

This project proposed a methodology for software plagiarism detection in multi-programming languages based on machine learning approaches. Software birthmarks have been proposed as a method for enabling the detection of programs that may have been stolen by measuring the similarity between the two programs. The project focuses on birthmark generation, similarity calculation and plagiarism detection.

**Reference:**

* Xi Xu,Ming Fan ‘Revisiting the Challenges and Opportunities in Software Plagiarism Detection’ ,IEEE International Conference on Computing Data Science 2020

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