Abstract

Rapid increase of Smartphone users worldwide has moved developers attention towards Mobile platform to create applications for Smartphone. Android is one such major mobile platform and also an open source operating system. With the rapid increase in the android applications some undesirable apps begin to show up. Two kinds of such apps are pirated and malware. This focuses on piracy of application in android market, because one developer pirates the other developer’s work. Two type of piracy present in android application, first copied java source code and other is graphical asset. This paper discusses on how to identify pirated application both graphical and java source code piracy. Androguard tool analyze similarity of bytecode in applications. With this tool, add extra feature to Combined Graphical asset comparison in Androguard. Finally, experimented result shows within 50sec can compare 20 Mb application graphical similarities and 120sec for source code comparison using Androsim (Snappy compressor).
3. Jiawei Zhu, Zhengang Wu, Zhi Guan, and Zhong Chen. 2015 Appearance Similarity Evaluation for Android Applications. 7th International Conference on Advanced Computational Intelligence, Mount Wuyi, Fujian, China; March 27-29, 2015.

**Index Terms**

Computer Science  
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**Keywords**

Android, Androguard, Piracy, Malware, Sourcecode, Graphical asset, Similarity, Backend, Frontend.