

Repackaging Detection for Android Apps

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Thesis Details

Android apps are sources of revenue for their developers, yet it is very easy to plagiarize a third-party app by *repackaging* it. In this thesis you will design a new scheme for detecting repackaged Android apps by using resource files included in the packages. Resource files, such as images, strings, xml layouts, have shown their potential in detecting cloned apps [1]. In your thesis, you will push the envelope further by considering different weights with which resource files contribute to the total score of “repackagedness”. You will apply machine learning techniques to investigate what resource file types better indicate repackaged apps, and to what extent code analysis needs to be done to complement the resource file-based detection of clones.

References

1. Zhauniarovich, Y., Gadyatskaya, O., Crispo, B., Spina, F.L., Moser, E.: FSquaDRA: Fast detection of repackaged applications. In: Proc. of DBSec. LNCS, vol. 8566, pp. 130–145. Springer (2014)