

UNIVERSITY OF SOUTH FLORIDA

Major Research Area Paper Presentation

*Precise and General Static Analysis Framework for Security Vetting of
Android Apps*

by
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For the Ph.D. degree in Computer Science & Engineering

A large portion of Android application security issues can be resolved by addressing one core problem -- capturing semantic behaviors of the app such as object points-to and control-/data-flow information. Thus, we designed an approach to conducting static analysis for vetting Android apps, and built a generic framework, called Argus-SAF, which does inter-component, flow-/context-sensitive data flow analysis. Based on Argus-SAF, we applied ranges of security applications on popular Android apps, and the results shows that the tool is capable of finding real security issues and efficient enough in terms of analysis time.

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