

UNIVERSITY OF SOUTH FLORIDA

Major Research Paper Presentation

Precise and General Static Analysis Framework for Security Vulnerability Detection in Android Apps

by

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For the Ph.D. Degree in Computer Science

Large program behaviors of the applications are often complex and hard to analyze. In this dissertation, we study the security vulnerabilities of Android apps, and design a static analysis framework called AppSec. The framework consists of a precise static analysis component for detecting security vulnerabilities, and a general static analysis component for detecting security vulnerabilities. The framework is able to detect security vulnerabilities in Android apps.

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