



Trustdroid

Identifying and Mitigating Trust Violations in the Smartphone Ecosystem

Challenge:

- Identifying and mitigating **trust violations** in the smartphone ecosystem
 - User – UI
 - User – Market
 - Apps – Network
 - Apps – OS
 - ...

Solution:

- Identification
- Logic-bomb discovery
- Bare-metal analysis
- Java/native code interaction analysis
- Mitigation
 - App sandboxing
 - Trustworthy GUI attribution
 - Safe code downloading

Scientific Impact:

- Study and mitigate trust violations currently exploited in the wild
- Identifying novel trust violations
- Developing and evaluating automatic detection and mitigation solutions

Broader Impact:

- Scientific publications
- Collaboration with vendors
- Open source releases
 - Android UI modifications
 - Grab'n run
 - Baredroid

