

# SaTC: CORE: Medium: Countering Surveillanceware Using Deception-Based Generative Models and Systems Mechanisms

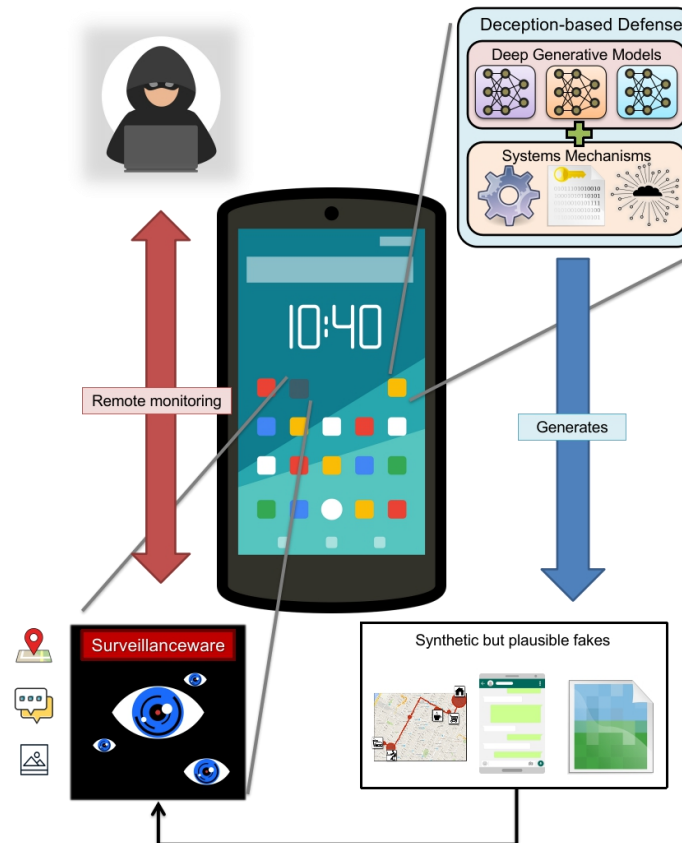


## Challenge:

- Surveillanceware is increasingly common; Victims are unable to uninstall it due to coercion or violence, so traditional defenses (e.g., antivirus) may not work
- We need better understanding of surveillanceware and new directions for defenses

## Solution:

- Generate synthetic data and feed it to surveillanceware to fool it
  - Building on our prior work synthesizing location trajectories and our past experience with mobile platforms
- Novel combination of systems mechanisms and deep generative models



## Scientific Impact:

- Studying surveillanceware adversaries will improve understanding of the threat and highlight mitigations
- Deep generative models for synthesizing fake but plausible data will highlight new applications

## Broader Impact and Broader Participation:

- Tackling surveillanceware helps broaden cybersecurity research to include concerns of vulnerable individuals/groups
- Collaborations with local organizations (e.g., domestic abuse shelters) and international partners (e.g., the Coalition Against Stalkerware)

Project #: 2055123

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