

Cybersecurity Transition to Practice Workshop

April 17, 2018 | New York, NY

Quad Chart for: *Data quality and security evaluation cyberinfrastructure applications*

Challenges:

- To develop and promote data quality and security evaluation procedures
- To design tools to evaluate security of the smartphones and other mobile devices

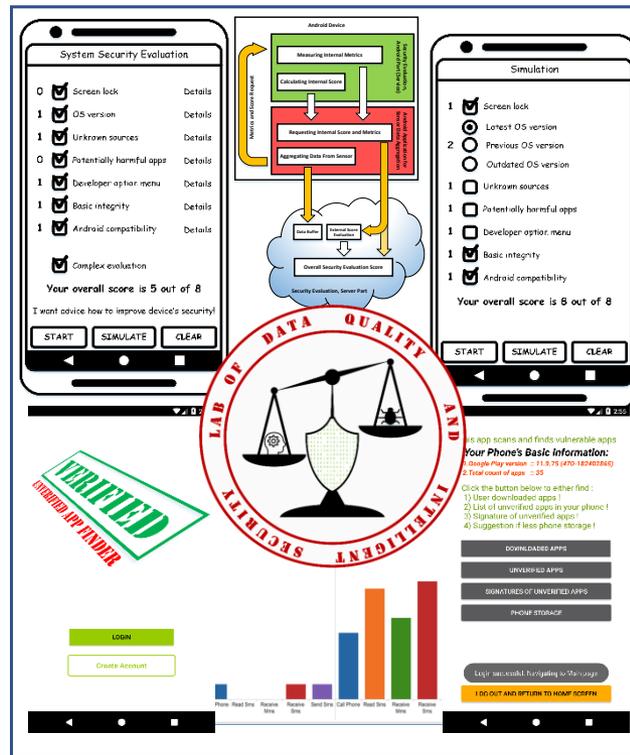
Deliverables:

- Ready for TTP:
 - Application and library for Android system security evaluation
 - Detector of unverified applications for Android OS
- Upcoming products:
 - Detector of potentially harmful applications for Android OS
- Long term goal:
 - Generic framework for data quality and security evaluation
- Future directions:
 - Cloud service for logging, comparing security scores, extending security evaluation
 - Integrating the permission analysis of the installed applications, collusion detection, security evaluation, and potentially vulnerable application detection into one service

Igor Khokhlov and Leon Reznik

ixk8996@rit.edu | lr@cs.rit.edu

Rochester Institute of Technology
New York



Scientific Impact and Broader Impact:

- Improving data management and security in science and industry
- Enhancement of a system's overall security and quality performance
- Building a safer and more secure environment for science and business operations

Metadata tag:

- Project description webinar recording: <https://youtu.be/nkp0kvJvTWw>
- Google Play apps: <https://goo.gl/YpUoAY> <https://goo.gl/h4jMWh>
- Publications:
 - Khokhlov, I. and Reznik, L., 2018, January. Android system security evaluation. In *Consumer Communications & Networking Conference (CCNC), 2018 15th IEEE Annual (pp. 1-2)*. IEEE.
 - Khokhlov, I. and Reznik, L., 2017, April. Data security evaluation for mobile android devices. In *Open Innovations Association (FRUCT), 2017 20th Conference of (pp. 154-160)*. IEEE.
- Need collaborators
- Need more funds
- Need help with social media exposure and our product promotion
- Looking for new research students

This material is partially based upon work supported by the National Science Foundation under Award # ACI-1547301