

Fengguo WEI

Curriculum Vitae

Computing and Information Sciences
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EDUCATION

Kansas State University, Manhattan, KS, USA

Ph.D. student in Computer Science, August 2012 – Present
Advisor: Dr. Xinming Ou

People's Public Security University, Beijing, China

B.S. in Computer Crime Investigation, September 2008 – June 2012

PROFILE

My research interests are in computer networks and security with emphasis on:

- Applying static methods for Android security analyzing.
- Memory analyze based dynamic forensic.

RESEARCH EXPERIENCE

Graduate Research Assistant

August 2012 – Present

Department of Computing and Information Sciences, KSU, Manhattan, KS

Project 1: **Smartphone Security**

Sponsor: Kansas State University, (KSU)

- Applying static methods for Android security analyzing: The focus is on detecting security issues on Android application. A large portion of those 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 Amandroid, which does inter-component, flow-/context-sensitive data flow analysis. Based on Amandroid, we applied certain 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.

Amandroid website: <http://amandroid.sireum.org/>

TECHNICAL SKILLS

Programming:	SCALA, JAVA, C, PYTHON, ML, DATALOG, \LaTeX
Programming IDE:	ECLIPSE, INTELLIJ
Operating Systems:	MAC, ANDROID, LINUX, UNIX
Version Control Tools:	GIT, SVN

PUBLICATIONS

Papers

1. Fengguo Wei, Sankardas Roy, Xinming Ou, Robby. Amandroid: A Precise and General Inter-component Data Flow Analysis Framework for Security Vetting of Android Apps. In 21st ACM Conference on Computer and Communications Security (CCS 2014), to appear.

Posters

1. Fengguo Wei, Sankardas Roy, Xinming Ou, Robby. A Precise and General Inter-component Data Flow Analysis Framework for Security Vetting of Android Apps. In the 35th IEEE Symposium on Security and Privacy. 2014. (Oakland 2014)

PROFESSIONAL ACTIVITIES

Reviewer:

- 30th Annual Computer Security Applications Conference (ACSAC 2014)
- 9th ACM Symposium on Information, Computer and Communications Security (ASIACCS 2014)
- 12th International Conference on Privacy, Security and Trust (PST 2014)
- 10th International Conference on Security and Privacy in Communication Networks (SecureComm 2014)

PROFESSIONAL AFFILIATIONS

1. The Honor Society of Phi Kappa Phi

HONORS AND AWARDS

1. PhD Fellowship, Kansas State University, 2012 - 2014.
2. National grants, China, 2011.