CompSec Lab

Systems and Software Security Lab: https://lifeasageek.github.io

Director

NAME Byoungyoung Lee
EDUCATION
POSTECH, Korea, B.S., 2009
POSTECH, Korea, M.S., 2011
Georgia Institute of Technology, USA, Ph. D., 2016
EXPERIENCES
Purdue University, Assistant Professor, 2016-2018
Google, Software Engineering Intern at Chrome Security Team, 2014
Microsoft Research, Research Intern at XCG team, 2012

Honors and Awards
Facebook and USENIX Internet Defense Prize (2012)
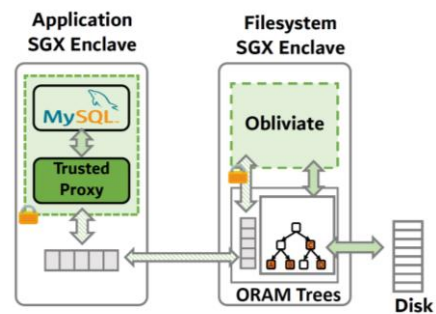Firefox Security Bounty Awards by Mozilla (2014)
Chrome Security Boundty Awards by Google (2013)
DEFCON CTF Finalists (2006, 2009, 2011)

## Research Areas

Hardware-assisted Trusted Computing
- Protecting deep-learning systems
- Protecting data security and privacy
- Intel SGX, ARM TrustZone

ORAM Based Trusted File Systems for Intel SGX

Automated Vulnerability Finding
- Symbolic execution
- Deep-learning based fuzzing
- Tailored custom executor/emulator
- Finding vulnerabilities in Linux/Windows/MacOSX
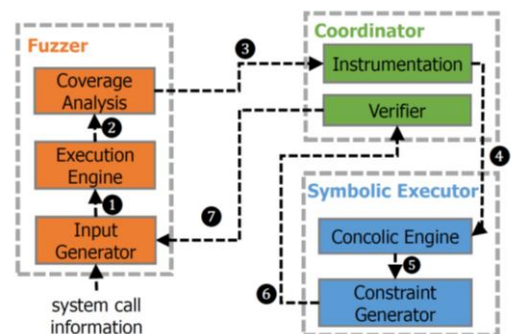
Security for Cyber-Physical Systems
- Automotive security
- Drone security
- Security for Real Time OS