

Applied Techniques

STA: A Permission-Dependent Type System
(Chapter 6, CSF'18)

Doublade: Thread-aware Grey-box Fuzzing
(Chapter 4, submitted)

Hawkeye: Directed Grey-box Fuzzing
(Chapter 3, CCS'18)

FOT: A General Greybox Fuzzing Framework
(Chapter 5, ESEC/FSE'18)

Securing Levels

Verification: Securing
System Designing

Multithreading-relevant
Bug Detection

Vulnerability Detection

Testing: Detecting
Implementation Defects

High

Low