

RAID 2015 Call For Participation



The 18th International Symposium on Research in Attacks, Intrusions and Defenses, previously known as Recent Advances in Intrusion Detection, will be held in Kyoto, Japan. This symposium brings together leading researchers and practitioners from academia, government, and industry to discuss novel security problems, solutions and technologies related to intrusion detection, attacks and defenses.

The RAID Symposium 2015 is organized as a 4-day event featuring:

- 28 scientific paper presentation in 3 days (November 2-4)
- 1 co-located workshop (November 5)
- 2 social events

Venue

“Kyoto Terrsa”
(15 minutes walk from JR Kyoto Station)
URL: <http://www.raid2015.org/venue.html>

Important Dates

Regular Registration: October 2, 2015 -
RAID Symposium: November 2-4, 2015
BADGERS Workshop: November 5, 2015

Hotel

We reserved 100 rooms in Kyoto city during the RAID symposium. The reservation procedures and details are available on the following page (<http://www.raid2015.org/hotel.html>).

Even if you do not need a reservation for the listed hotels, we strongly recommend that you make a hotel reservation as early as possible, as November is the tourist season in Kyoto and you may have difficulty finding hotels at the last minute.

Travel Grant

A few travel grants are available to students. Email raid2015-oc@is.naist.jp a motivation letter (in plaintext format) which outlines your current research and tells us why attending the symposium will be beneficial to you, along with a preliminary travel budget, and a note from your advisor requesting assistance. As with other symposium attendees, applicants of the travel grant are invited to proceed through the normal registration procedure.

Organizing Committee

General Chair: Youki Kadobayashi (*Nara Institute of Science and Technology*)

PC Chair: Herbert Bos (*Vrije Universiteit/VU University Amsterdam*)

PC Co-Chair: Fabian Monrose (*University of North Carolina at Chapel Hill Publication*)

Poster Chair: Sanjay Rawat (*VU University Amsterdam*)

Local Arrangement Chair: Kazuya Okada (*Nara Institute of Science and Technology*)

Publication Chair: Gregory Blanc (*Télécom SudParis*)

Publicity Chair: Giorgos Vasiliadis (*FORTH*)

*The top image is provided by Kyoto Free Photo Materials.

Program (Single Track)

Monday, November 2, 2015

09:15-10:15 Keynote (Speaker: Mark Seaborn, *Google*)

10:30-12:30 Session 1: Cool Stuff You Can Do With Hardware

- Ensemble Learning for Low-level Hardware-supported Malware Detection
- Physical-layer Detection of Hardware Keyloggers
- Reverse Engineering Intel Last-Level Cache Complex Addressing Using Performance Counters
- Hardware-Assisted Fine-Grained Code-Reuse Attack Detection

14:00-15:30 Session 2: Networks

- Haetae: Scaling the Performance of Network Intrusion Detection with Many-core Processors
- Demystifying the IP Blackspace
- Providing Dynamic Control to Passive Network Security Monitoring

16:00-17:30 Session 3: Hardening

- Probabilistic Inference on Integrity for Access Behavior Based Malware Detection
- Counteracting Data-Only Malware with Code Pointer Examination
- Xede: Practical Exploit Early Detection

19:00-21:00 Banquet

Tuesday, November 3, 2015

09:00-10:30 Session 4: Attack Detection 1

- Preventing Exploits in Microsoft Office Documents through Content Randomization
- Improving accuracy of static integer overflow detection in binary
- A Formal Framework for Program Anomaly Detection

11:00-12:30 Session 5: Web and Net

- jÄk: Using Dynamic Analysis to Crawl and Test Modern Web Applications
- WYSISNWIV: What You Scan Is Not What I Visit
- SDN Rootkits: Subverting Network Operating Systems of Software-Defined Networks

14:00-15:30 Session 6: Android

- AppSpear: Bytecode Decrypting and DEX Reassembling for Packed Android Malware
- HelDroid: Dissecting and Detecting Mobile Ransomware
- Continuous Authentication on Mobile Devices Using Power Consumption, Touch Gestures and Physical Movement of Users

16:00-17:00 Session 7: Privacy

- Privacy Risk Assessment on Online Photos
- Privacy is Not an Option: Attacking the IPv6 Privacy Extension

17:00-18:30 Poster Session

- 25 posters will be presented in the session

19:00-21:00 Reception

Wednesday, November 4, 2015

09:00-11:00 Session 8: Evaluating Solutions

- Evaluation of Intrusion Detection Systems in Virtualized Environments Using Attack Injection
- Security Analysis of PHP Bytecode Protection Mechanisms
- Radmin: Early Detection of Application-level Resource Exhaustion and Starvation Attacks
- Towards Automatic Inference of Kernel Object Semantics from Binary Code

11:30-13:00 Session 9: Attack Detection 2

- BotWatcher: Transparent and Generic Botnet Tracking
- Elite: Automatic Orchestration of Elastic Detection Services to Secure Cloud Hosting
- AmpPot: Monitoring and Defending Against Amplification DDoS Attacks