

**USENIX Association**

**Proceedings of the  
26th USENIX Security Symposium**

**August 16–18, 2017  
Vancouver, BC, Canada**

## Conference Organizers

### Program Co-Chairs

Engin Kirda, *Northeastern University*

Thomas Ristenpart, *Cornell Tech*

### Program Committee

Devdatta Akhawe, *Dropbox*

Manos Antonakakis, *Georgia Institute of Technology*

Michael Backes, *CISPA, Saarland University, and Max Planck Institute for Software Systems (MPI-SWS)*

Michael Bailey, *University of Illinois at Urbana-Champaign*

Davide Balzarotti, *Eurecom*

Lujo Bauer, *Carnegie Mellon University*

Karthikeyan Bhargavan, *Inria*

Leyla Bilge, *Symantec*

Joseph Bonneau, *Electronic Frontier Foundation and Stanford University*

Kevin Butler, *University of Florida*

Juan Caballero, *IMDEA Software Institute*

Srdjan Capkun, *ETH Zurich*

David Cash, *Rutgers University*

Stephen Checkoway, *University of Illinois at Chicago*

Nicolas Christin, *Carnegie Mellon University*

Manuel Costa, *Microsoft Research*

Brendan Dolan-Gavitt, *New York University*

Adam Doupe, *Arizona State University*

Tudor Dumitras, *University of Maryland*

Manuel Egele, *Boston University*

Serge Egelman, *International Computer Science Institute and University of California, Berkeley*

William Enck, *North Carolina State University*

Roya Ensafi, *Princeton University*

Cédric Fournet, *Microsoft Research*

Matthew Fredrikson, *Carnegie Mellon University*

Guofei Gu, *Texas A&M University*

Nadia Heninger, *University of Pennsylvania*

Thorsten Holz, *Ruhr-Universität Bochum*

Suman Jana, *Columbia University*

Martin Johns, *SAP Research*

Ari Juels, *Cornell Tech*

Chris Kanich, *University of Illinois at Chicago*

Alexandros Kapravelos, *North Carolina State University*

Tadayoshi Kohno, *University of Washington*

Farinaz Koushanfar, *University of California, San Diego*

Andrea Lanzani, *University of Milan*

Wenke Lee, *Georgia Institute of Technology*

Tim Leek, *MIT Lincoln Laboratory*

Zhenkai Liang, *National University of Singapore*

David Lie, *University of Toronto*

Zhiqiang Lin, *The University of Texas at Dallas*

Ben Livshits, *Imperial College London*

Long Lu, *Stony Brook University*

Ivan Martinovic, *Oxford University*

Michelle Mazurek, *University of Maryland*

Damon McCoy, *New York University*

Jonathan McCune, *Google*

Sarah Meiklejohn, *University College London*

Andrew Miller, *University of Illinois at Urbana-Champaign*

Prateek Mittal, *Princeton University*

Nick Nikiforakis, *Stony Brook University*

Alina Oprea, *Northeastern University*

Kenny Paterson, *Royal Holloway, University of London*

Mathias Payer, *Purdue University*

Roberto Perdisci, *University of Georgia*

Michalis Polychranakis, *Stony Brook University*

Christina Pöpper, *New York University*

Adrienne Porter Felt, *Google*

Georgios Portokalidis, *Stevens Institute of Technology*

William Robertson, *Northeastern University*

Franziska Roesner, *University of Washington*

Andrei Sabelfeld, *Chalmers University of Technology*

Thomas Shrimpton, *University of Florida*

Stelios Sidiroglou-Douskos, *Massachusetts Institute of Technology*

Robin Sommer, *International Computer Science Institute*

Deian Stefan, *University of California, San Diego*

Gianluca Stringhini, *University College London*

Kurt Thomas, *Google*

Patrick Traynor, *University of Florida*

Blase Ur, *University of Chicago*

Giovanni Vigna, *University of California, Santa Barbara*

Xi Wang, *University of Washington*

XiaoFeng Wang, *Indiana University*

Yuval Yarom, *University of Adelaide*

Yinqian Zhang, *The Ohio State University*

### **Invited Talks Committee**

Michael Bailey, *University of Illinois*  
Casey Henderson, *USENIX Association*  
David Molnar (Chair), *Microsoft*  
Franziska Roesner, *University of Washington*

### **Poster Session Chair**

Nick Nikiforakis, *Stony Brook University*

### **Test of Time Awards Committee**

Matt Blaze, *University of Pennsylvania*  
Dan Boneh, *Stanford University*  
Kevin Fu, *University of Michigan*  
David Wagner, *University of California, Berkeley*

### **Lightning Talks Co-Chairs**

Kevin Butler, *University of Florida*  
Deian Stefan, *University of California, San Diego*

### **Steering Committee**

Matt Blaze, *University of Pennsylvania*  
Dan Boneh, *Stanford University*  
Kevin Fu, *University of Michigan*  
Casey Henderson, *USENIX Association*  
Thorsten Holz, *Ruhr-Universität Bochum*  
Jaeyeon Jung, *Microsoft Research*  
Tadayoshi Kohno, *University of Washington*  
Niels Provos, *Google*  
David Wagner, *University of California, Berkeley*  
Dan Wallach, *Rice University*

## **External Reviewers**

Hadi Abdullah	Dov Gordon	Mary Maller	Josh Tan
Martin Albrecht	Paul Grubbs	Srdjan Matic	Yuan Tian
Joey Allen	Eric Gustafson	William Melicher	Erkam Uzun
Aslan Askarov	Florian Hahn	Abner Mendoza	Luke Valenta
Sarah Azouvi	Per Hallgren	Kristopher Micinski	Steven Van Acker
Musard Balliu	Daniel Hausknecht	Payman Mohassel	Luis Vargus
Erick Bauman	Grant Hernandez	Magnus Myreen	Giorgos Vasiladis
Sruti Bhagavatula	Sanghyun Hong	Adwait Nadkarni	Fish Wang
Antonio Bianchi	Kevin Hong	Claudio Orlandi	Weiren Wang
Logan Blue	Yuval Ishai	Xiaorui Pan	Xueqiang Wang
Kevin Borgolte	Kai Jansen	Kyuhong Park	Wenhao Wang
Jasmine Bowers	Yang Ji	Andre Pawlowski	Haopei Wang
Fraser Brown	Jeff Johns	Christian Peeters	Zachary Weinberg
Swarup Chandra	Lachlan Kang	Giancarlo Pellegrino	Lei Xu
Shang-Tse Chen	Vishal Karande	Chenxiong Qian	Carter Yagemann
Simon Chung	Yigitcan Kaya	Willard Rafnsson	Guangliang Yang
David Clark	Marcel Keller	Bradley Reaves	Cong Zhang
Moritz Contag	David Kohlbrenner	David Rupprecht	Nan Zhang
Vijay D'Silva	Katharina Kohls	Theodor Schnitzler	Zhe Zhou
Philip Daian	Benjamin Kollenda	Daniel Schoepe	Ziyun Zhu
Anupam Das	Philipp Koppe	Will Scott	
Alex Davidson	BumJun Kwon	Mahmood Sharif	
Martin Degeling	Sangho Lee	Yan Shoshitaishvili	
Ruian Duan	Yeonjoon Lee	Alexander Sjösten	
Mattia Fazzini	Tongxin Li	Kyle Soska	
Yanick Fratantonio	Xiapu Luo	Octavian Suciuc	
Daniel Genkin	Aravind Machiry	Janos Szurdi	