Award Session

Distinguished Paper Awards

Selection Process

Paper Pre-Selection by TPC Co-Chairs:

- avg recommendation > 3.0 (weak accept), > 2.0 avg reviewer expertise, > 2.0 avg reviewer confidence
- 37 paper candidates
- aim: identify the most impactful ~5% of the 211 accepted papers

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Committee Members:

- Angelos Stavrou (Co-Chair), Mathias Payer (Co-Chair), Manuel Egele, Martin Henze, Veelasha Moonsamy
- Paper grouping into six categories with 6 (7) papers each (fair distribution among different areas of interest)
- Individual ranking of top 3 papers in each category (unless committee members were conflicted with a category)
  → top 2 papers per category

Distinguished Paper Award

ReThink: Reveal the Threat of Electro-magnetic Interference on Power Inverters

Fengchen Yang, Zihao Dan, Kaikai Pan, Chen Yan, Xiaoyu Ji, Wenyuan Xu (Zhejiang University)

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Distinguished Paper Award

An Empirical Study on Fingerprint API Misuse with Lifecycle Analysis in Real-world Android Apps

Xin Zhang, Xiaohan Zhang, Zhichen Liu, Bo Zhao, Zhemin Yang, Min Yang (Fudan University)

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Distinguished Paper Award

SafeSplit: A Novel Defense Against Client-Side Backdoor Attacks in Split Learning

Phillip Rieger, Alessandro Pegoraro, Kavita Kumari, Tigist Abera, Jonathan Knauer, Ahmad-Reza Sadeghi (Technical University of Darmstadt)

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Distinguished Paper Award

Provably Unlearnable Data Examples

Derui Wang, Minhui Xue (CSIRO's Data61),
Bo Li (The University of Chicago),
Seyit Camtepe, Liming Zhu (CSIRO's Data61)

Distinguished Paper Award

DUMPLING: Fine-grained Differential JavaScript Engine Fuzzing

Liam Wachter, Julian Gremminger (EPFL), Christian Wressnegger (Karlsruhe Institute of Technology), Mathias Payer, Flavio Toffalini (EPFL)

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Distinguished Paper Award

type++: Prohibiting Type Confusion with Inline Type Information

Nicolas Badoux (EPFL), Flavio Toffalini (Ruhr-Universität Bochum, EPFL), Yuseok Jeon (UNIST), Mathias Payer (EPFL)

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Distinguished Paper Award

Rethinking Trust in Forge-Based Git Security

Aditya Sirish A Yelgundhalli, Patrick Zielinski (New York University), Reza Curtmola (New Jersey Institute of Technology), Justin Cappos (New York University)

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Distinguished Paper Award

Blindfold: Confidential Memory Management by Untrusted Operating System

Caihua Li, Seung-seob Lee, Ling Zhong
(Yale University)

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Distinguished Paper Award

PropertyGPT: LLM-driven Formal Verification of Smart Contracts through Retrieval-Augmented Property Generation

Ye Liu (Singapore Management University), Yue Xue (MetaTrust Labs), Daoyuan Wu (The Hong Kong University of Science and Technology), Yuqiang Sun, Yi Li (Nanyang Technological University), Miaolei Shi (MetaTrust Labs), Yang Liu (Nanyang Technological University)

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Distinguished Paper Award

DiStefano: Decentralized Infrastructure for Sharing Trusted Encrypted Facts and Nothing More

Sofía Celi (Brave Software), Alex Davidson (NOVA LINCS & Universidade NOVA de Lisboa), Hamed Haddadi (Imperial College London & Brave Software), Gonçalo Pestana (Hashmatter), Joe Rowell (University of London)

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Distinguished Paper Award

ReDAN: An Empirical Study on Remote DoS Attacks against NAT Networks

Xuewei Feng, Yuxiang Yang, Qi Li (Tsinghua University),
Xingxiang Zhan (Zhongguancun Lab),
Kun Sun (George Mason University);
Ziqiang Wang, Ao Wang (Southeast University),
Ganqiu Du (China Software Testing Center),
Ke Xu (Tsinghua University)

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Distinguished Paper Award

VoiceRadar: Voice Deepfake Detection using Micro-Frequency and Compositional Analysis

Kavita Kumari (Technical University of Darmstadt), Maryam Abbasihafshejani (University of Texas at San Antonio), Alessandro Pegoraro, Phillip Rieger, Kamyar Arshi (Technical University of Darmstadt), Murtuza Jadliwala (University of Texas at San Antonio), Ahmad-Reza Sadeghi (Technical University of Darmstadt)

Distinguished Reviewers

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Bahruz Jabiyev, Dartmouth College
Bart Coppens, Ghent University
Ben Stock, CISPA Helmholtz Center for Information Security
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Benjamin Andow, Google
Binbin Zhao, Georgia Institute of Technology
Brendan Saltaformaggio, Georgia Institute of Technology
Christine Utz, Radboud University
Christof Ferreira Torres, ETH Zurich
Christophe Hauser, Dartmouth College
Christopher Kruegel, UC Santa Barbara
Claudio Soriente, NEC Laboratories Europe
Coby Wang, Visa Research
Daniel Gruss, Graz University of Technology
Daniele Cono D'Elia, Sapienza University of Rome
Daoyuan Wu, Hong Kong University of Science and Techn.
David Mohaisen, University of Central Florida
Derrick McKee, MIT Lincoln Laboratory
Derui Wang, CSIRO's Data61
Ding Wang, Nankai University
Doowon Kim, University of Tennessee, Knoxville
Eleonora Losiouk, University of Padua
Erik van der Kouwe Vrije, Universiteit Amsterdam
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Fengwei Zhang, Southern University of Science and Techn.

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Gary Tan, Pennsylvania State University
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Giovanni Apruzzese, University of Liechtenstein
Guangdong Bai, The University of Queensland
Fengwei Zhang, Southern University of Science and Techn.
Flavio Toffalini, EPFL
Gang Qu, University of Maryland
Gary Tan, Pennsylvania State University
Ghassan Karame, Ruhr University Bochum
Giovanni Apruzzese, University of Liechtenstein
Guangdong Bai, The University of Queensland
Guofei Gu, Texas A&M University
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Haojin Zhu, Shanghai Jiao Tong University
Hong Hu, Pennsylvania State University
Hongxin Hu, University at Buffalo
Hossein Fereidooni, KOBIL GmbH
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Insu Yun, KAIST
Ivan Martinovic, University of Oxford
Jason (Minhui) Xue, CSIRO's Data61
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Lejla Batina, Radboud University
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Murtuza Jadliwala, University of Texas at San Antonio
Nader Sehatbakhsh, UCLA
Nadim Kobeissi, Cure53, Symbolic Software
Nathan Burow, MIT Lincoln Laboratory
Neil Gong, Duke University
Nick Nikiforakis, Stony Brook University
Nidhi Rastogi, Rochester Institute of Technology
Ning Wang, University of South Florida
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Peng Gao, Virginia Tech
Per Larsen, Immunant, Inc.
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Prashast Srivastava, Columbia University
Qi Li, Tsinghua University
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Qiben Yan, Michigan State University
Qingchuan Zhao, City University of Hong Kong
Qiushi Wu, IBM Research
Rachel Greenstadt, New York University
Raghavendran Ramakrishnan, Snowflake Inc
Rajvardhan Oak, University of California Davis / Microsoft Corporation
René Mayrhofer, Johannes Kepler University Linz
Rob Cunningham, University of Pittsburgh
Ruoyu "Fish" Wang, Arizona State University
Saman Zonouz, Georgia Institute of Technology

Samuel Jero, MIT Lincoln Laboratory
Sandra Siby, Imperial College London
Sang Kil Cha, KAIST
Santosh Nagarakatte, Rutgers University
Sebastian Köhler, University of Oxford
Sébastien Bardin, CEA List, Université Paris Saclay
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Sisi Duan, Tsinghua University
Soheil Salehi, The University of Arizona
Srdjan Čapkun, ETH Zurich
Stephen Herwig, William & Mary
Stjepan Picek, Radboud University
Suryadipta Majumdar, Concordia University
Syed Rafiul Hussain, Pennsylvania State University
Takuya Watanabe, Deloitte Tohmatsu Cyber LLC
Tatsuya Mori, Waseda University
Theodor Schnitzler, Maastricht University
Tianhao Wang, University of Virginia
Ting Wang, Stony Brook University
Tuba Yavuz, University of Florida
Veelasha Moonsamy, Ruhr University Bochum
Wajih Ul Hassan, University of Virginia
Wenke Lee, Georgia Institute of Technology
William Robertson, Northeastern University
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Xingliang Yuan, The University of Melbourne
Xinwen Fu, University of Massachusetts Lowell
Xinyang Ge, Databricks
Xinyu Xing, Northwestern University
Yang Zhang, CISPA Helmholtz Center for Information Security
Yongdae Kim, KAIST
Yonghwi Kwon, University of Maryland
Yuan Hong, University of Connecticut
Yue Zhang, Drexel University
Yuzhe Tang, Syracuse University
Z. Berkay Celik, Purdue University
Zephyr Yao, New Jersey Institute of Technology
Zhikun Zhang, Stanford & CISPA
Zhiyun Qian, University of California, Riverside
Zhou Li, University of California, Irvine

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Selection Process

Selection criteria:

- Total number of reviews (up to 27!)
- Number of shepherded/discussion lead papers
- Review ratings (+/-)
- Average review scores (avoiding overly positive and overly negative reviewers)
- Our experience in working with you

→ 19/167 reviewers selected

Distinguished Reviewers

Adwait Nadkarni, William & Mary
Ang Li, The University of Michigan-Dearborn
Awais Rashid, University of Bristol
Bart Coppens, Ghent University
Daniele Cono D'Elia, Sapienza University of Rome
Haipeng Cai, Washington State University
Hyungsub Kim, Indiana University
Imtiaz Karim, Purdue University
Kaushal Kafle, William & Mary
Martin Henze, RWTH Aachen University & Fraunhofer FKIE
Mihalis Maniatakos, NYU Abu Dhabi
Mitsuaki Akiyama, NTT
Nader Sehatbakhsh, UCLA
Nathan Burow, MIT Lincoln Laboratory
Phani Vadrevu, Louisiana State University
Samuel Jero, MIT Lincoln Laboratory
Sébastien Bardin CEA List, Université Paris Saclay
Shweta Shinde, ETH Zurich
Yue Zhang, Drexel University

Artifact Evaluation Awards

Distinguished Artifact

Cascading Spy Sheets: Exploiting the Complexity of Modern CSS for Email and Browser Fingerprinting

Leon Trampert, Daniel Weber, Lukas Gerlach, Christian Rossow, Michael Schwarz (CISPA Helmholtz Center for Information Security)

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Distinguished Artifact

JBomAudit: Assessing the Landscape, Compliance, and Security Implications of Java SBOMs

Yue Xiao, Dhilung Kirat, Douglas Lee Schales, Jiyong Jang (IBM Research), Luyi Xing, Xiaojing Liao (Indiana University Bloomington)

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Distinguished Artifact

SHAFT: Secure, Handy, Accurate and Fast Transformer Inference

Andes Y. L. Kei, Sherman S. M. Chow
(Chinese University of Hong Kong)

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Distinguished Artifact Evaluator

Christoph Sendner
Paul Staat
Salvatore Signorello
Torsten Krauß

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Poster Session Awards

Best Technical Poster

JailbreakEval: An Integrated Toolkit for Evaluating Jailbreak Attempts Against Large Language Models

Delong Ran, Jinyuan Liu, Yichen Gong (Tsinghua University);
Jingyi Zheng, Xinlei He (The Hong Kong University of Science and Technology (Guangzhou));
Tianshuo Cong, Anyu Wang (Tsinghua University)

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Best Poster Presentation

Decoupling the Device and Identity in Cellular Networks with vSIM

Shirin Ebadi, Zach Moolman, Eric Keller, Tamara Lehman
(University of Colorado Boulder)

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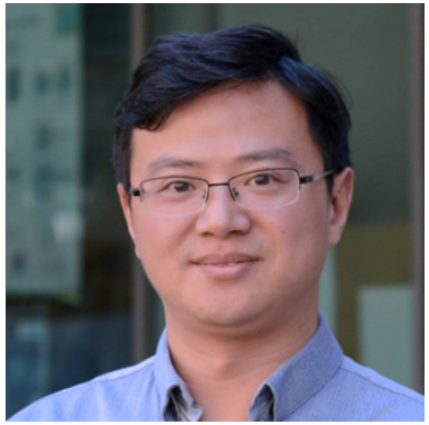

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Mauro Conti

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