Opening Remarks and Awards

Program Co-Chairs

Davide Balzarotti, Eurecom

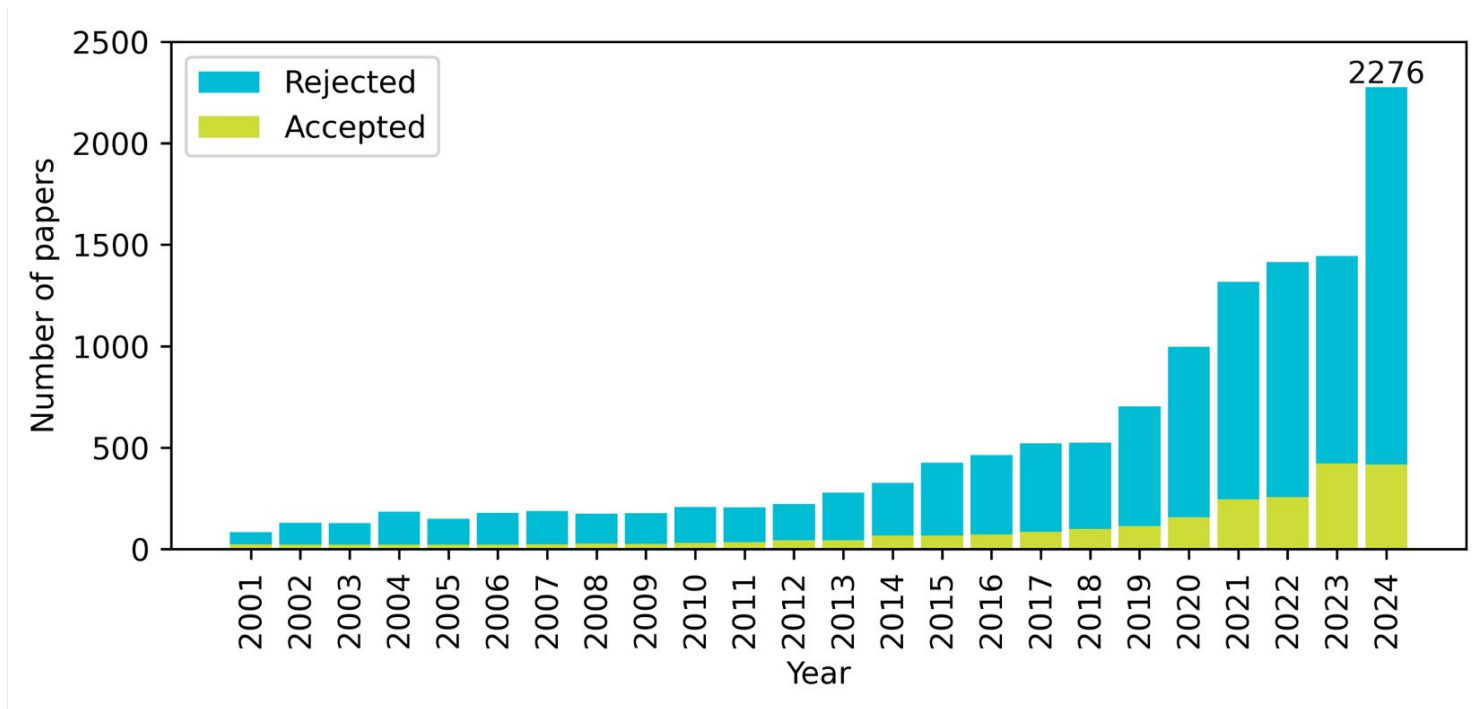Wenyuan Xu, Zhejiang University

Statistics

Accepted papers: **417** (including **35** from Sec'23)
              35 still undergoing major revision

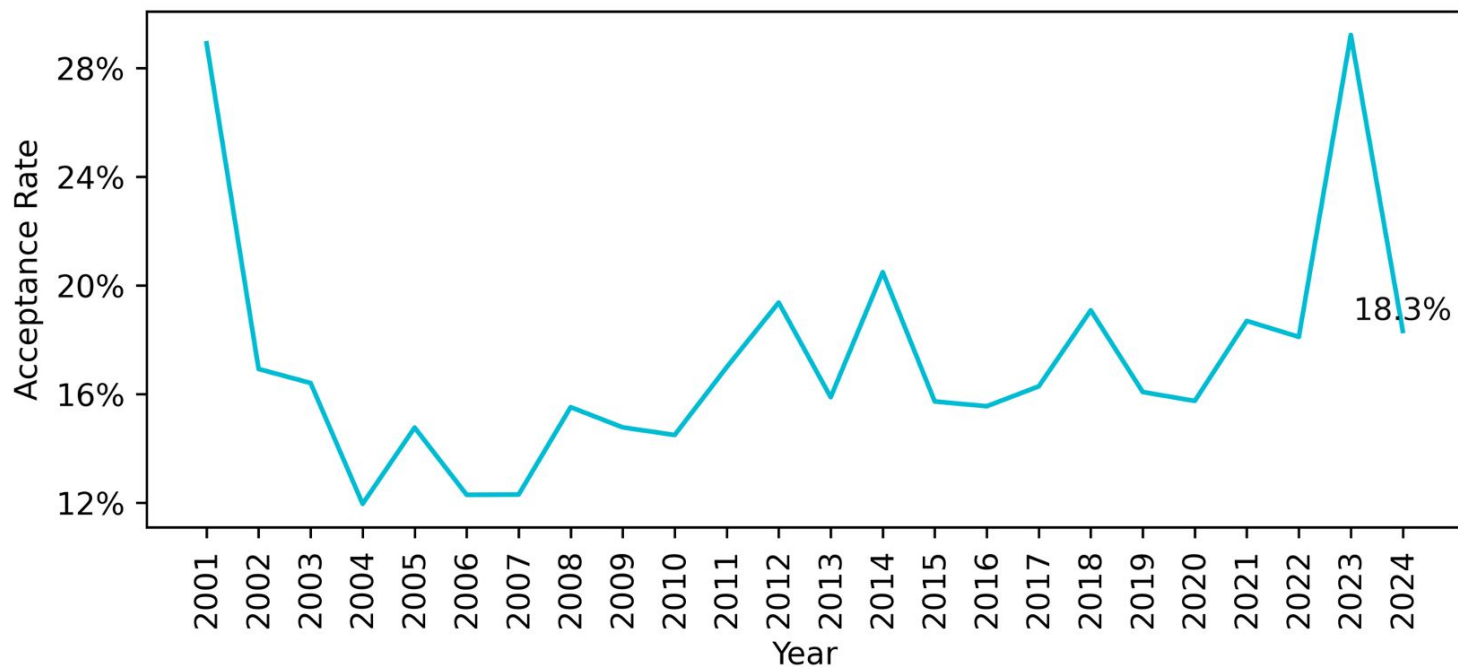Paper submissions by deadline (**2276** total, **100** desk rejected):

- Summer: **515**
- Fall: **990**
- Winter: **771**

Acceptance rate: **17.3%–18.9%**

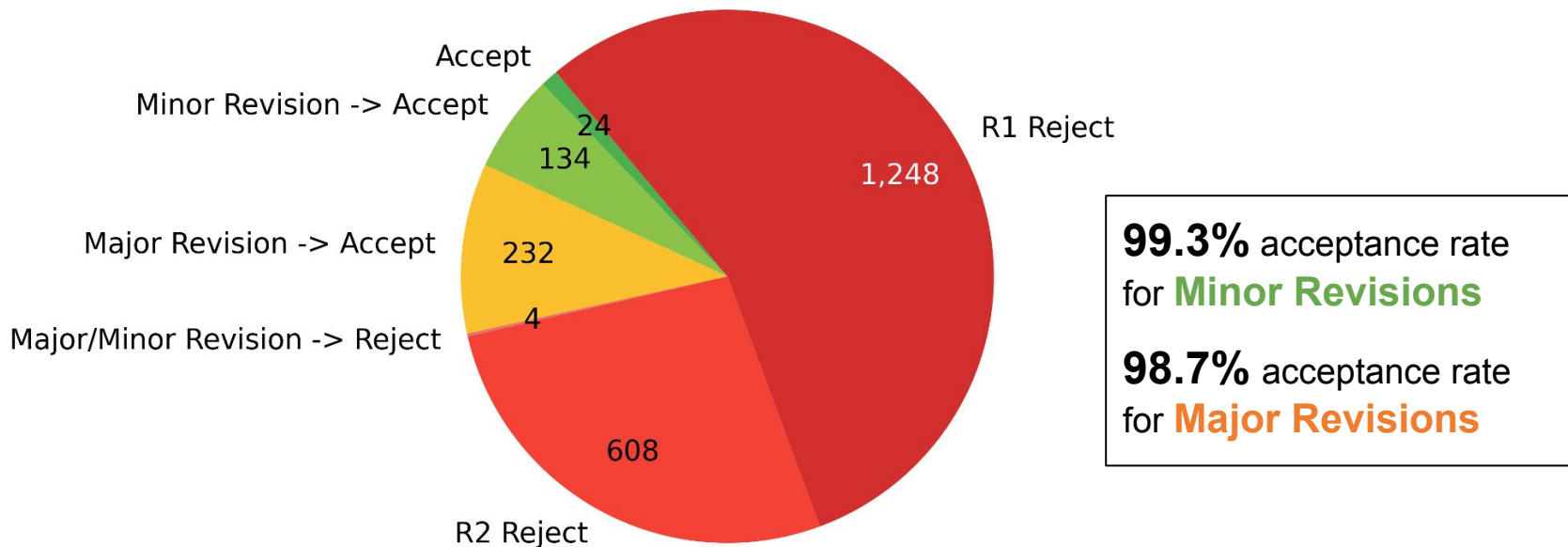**356 PC members**: **6,688** reviews, **23,287** discussion comments

USENIX Security is Growing!

Historical Acceptance Rates

Paper Decisions During the Review Process

Accept

Minor Revision -> Accept

R1 Reject

24

134

1,248

Major Revision -> Accept

232

Major/Minor Revision -> Reject

4

608

R2 Reject

99.3% acceptance rate
for **Minor Revisions**

98.7% acceptance rate
for **Major Revisions**

Average Scores for Accepted and Rejected Papers

Accepted papers
(Average score: 2.575)

11% — Accept (1)
34% — Minor (2)
44% — Major (3)
12% — Reject (4)
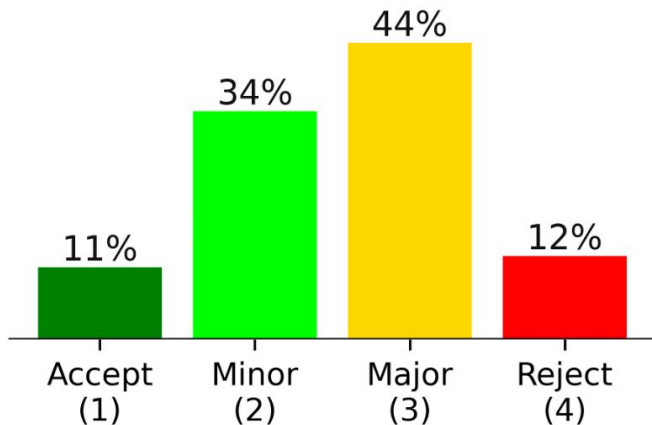
Rejected papers
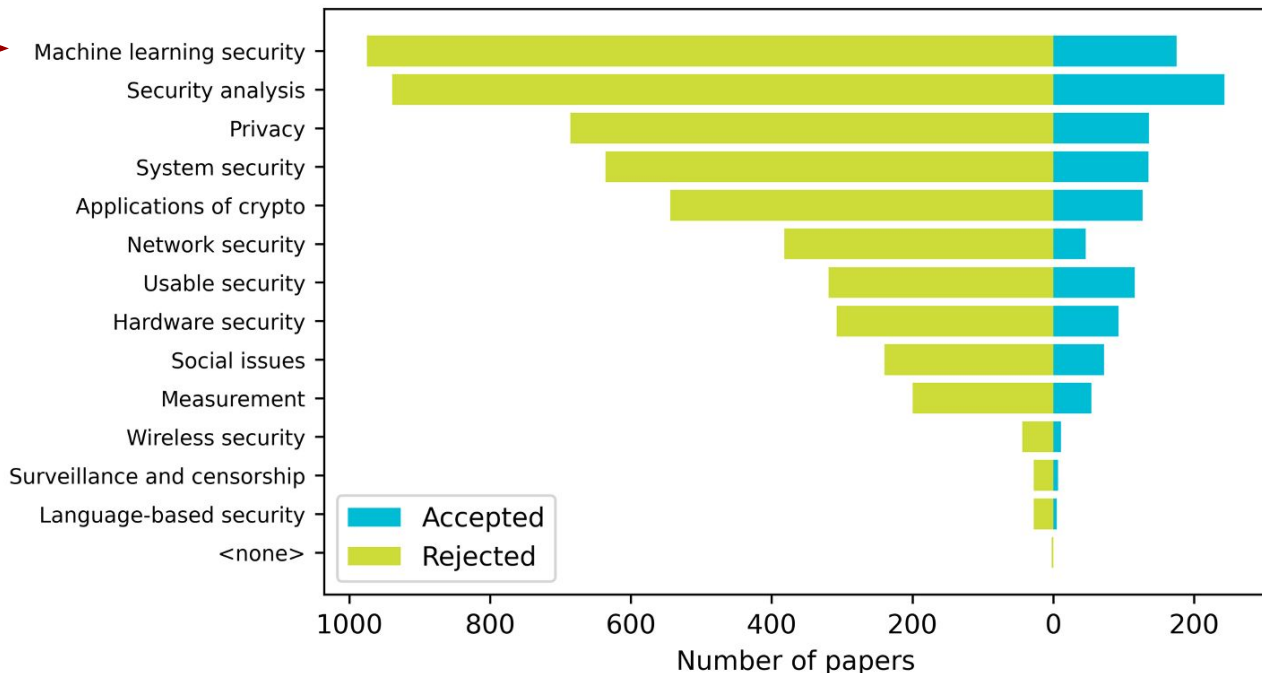(Average score: 3.653)

1% — Accept (1)
5% — Minor (2)
21% — Major (3)
73% — Reject (4)
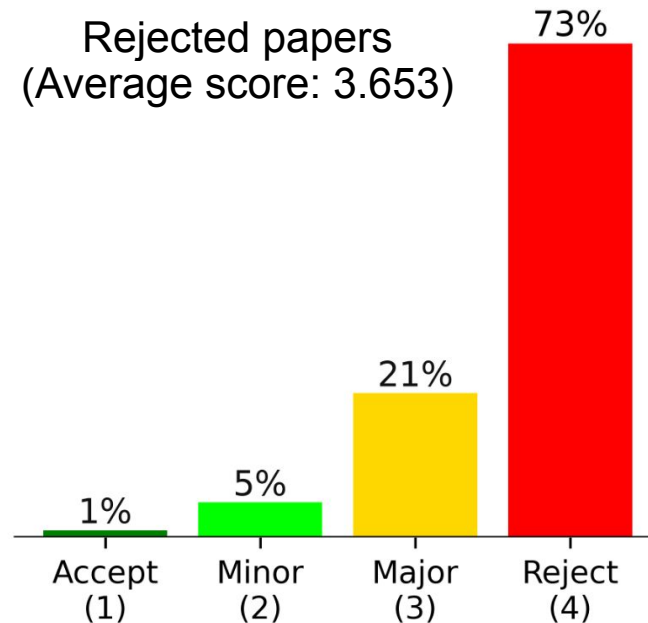
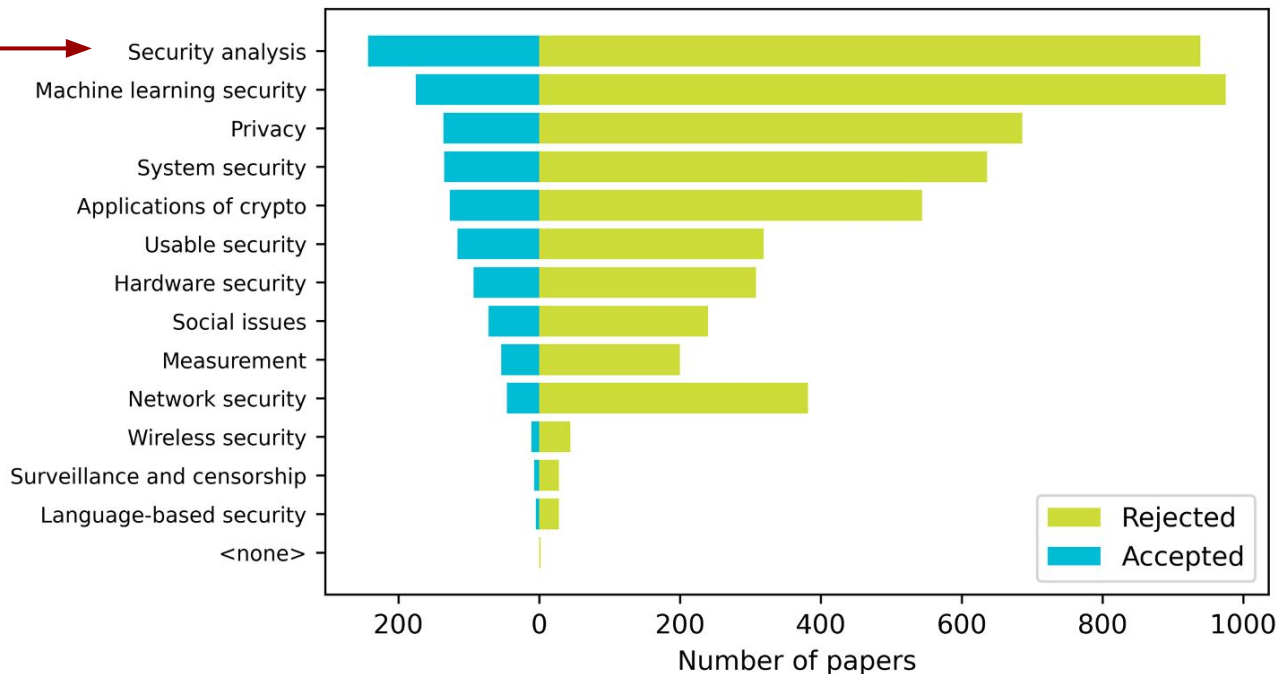# 9 things you don't know about

USENIX Security 2024

1. Rejected Papers by Topic ☹️

1st:

Machine learning security

(975)

2. Accepted Papers by Topic 😃

1st:

Security analysis

(243)

3. Acceptance Rate by Topic 🤔

1st: Usable security (26.7%)

2nd: Hardware security (23.2%)

Horizontal bar chart titled "Acceptance rate" showing:
- Usable security: ~26.7%
- Hardware security: ~23.2%
- Social issues: ~23%
- Measurement: ~21%
- Security analysis: ~20.5%
- Wireless security: ~20%
- Surveillance and censorship: ~20%
- Applications of crypto: ~19%
- System security: ~17.5%
- Privacy: ~16.5%
- Machine learning security: ~15%
- Language-based security: ~15%
- Network security: ~11%
- <none>: 0%
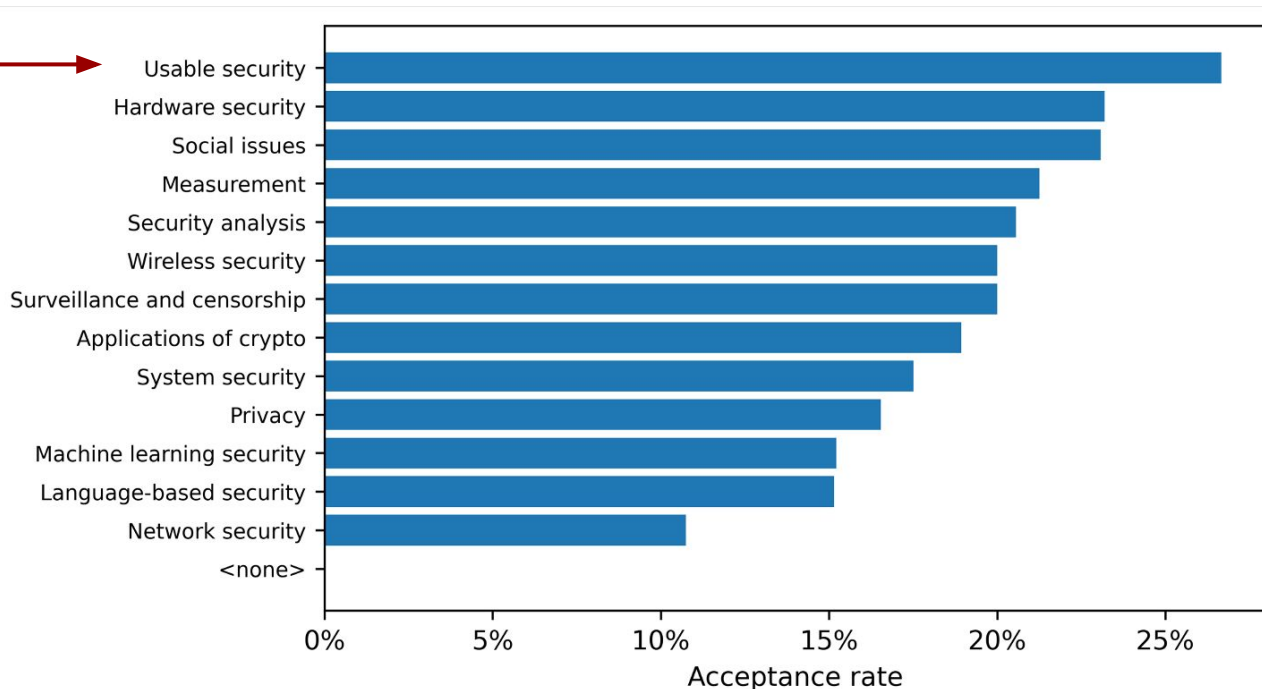
4. Accepted Papers by Country
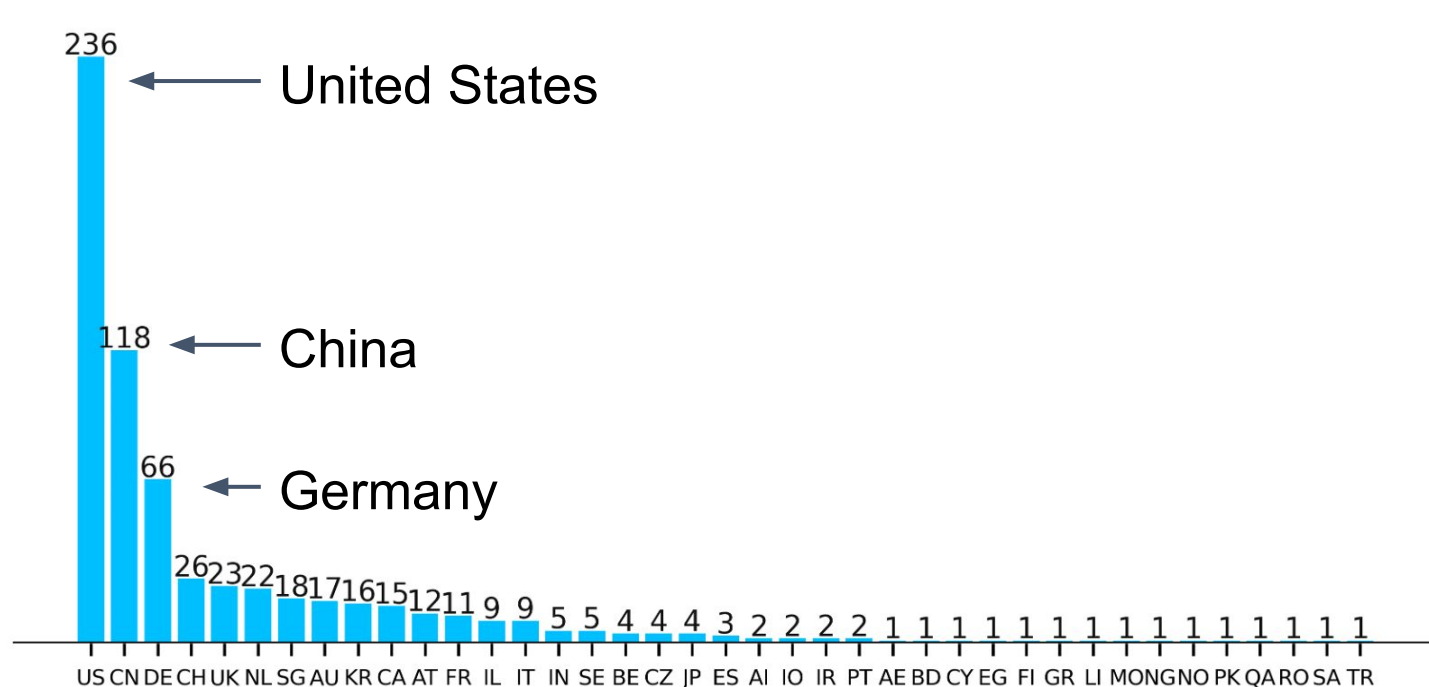
5. Acceptance Rate by Country

1st:
Turkey (33.3%)

2nd:
France (29.7%)

3rd:
Germany (27.5%)
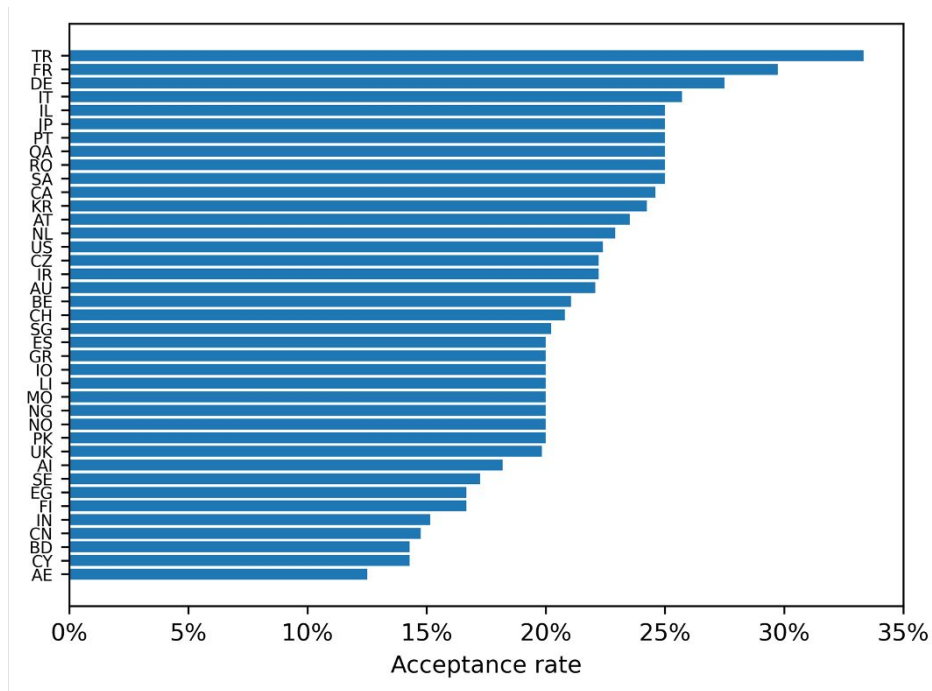
6. Accepted Papers by the Number of Authors

7. Acceptance Rate by the Number of Authors

66.7% acceptance rate for papers with 15 authors

Advice: Collaborate! 🤝
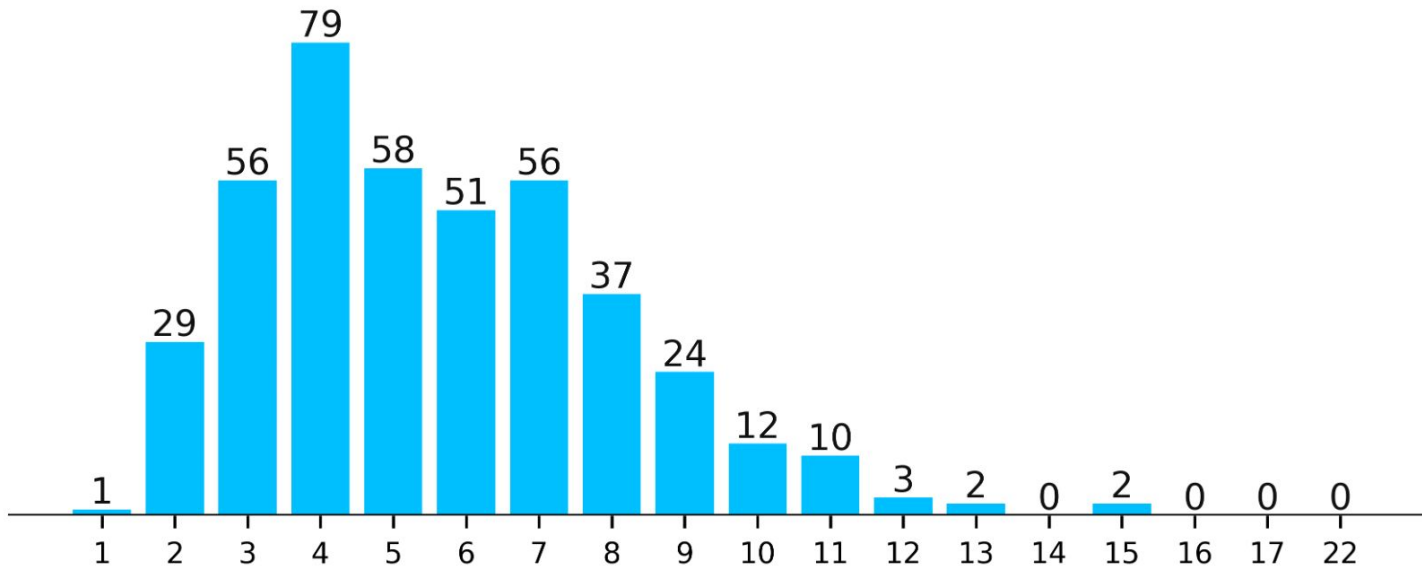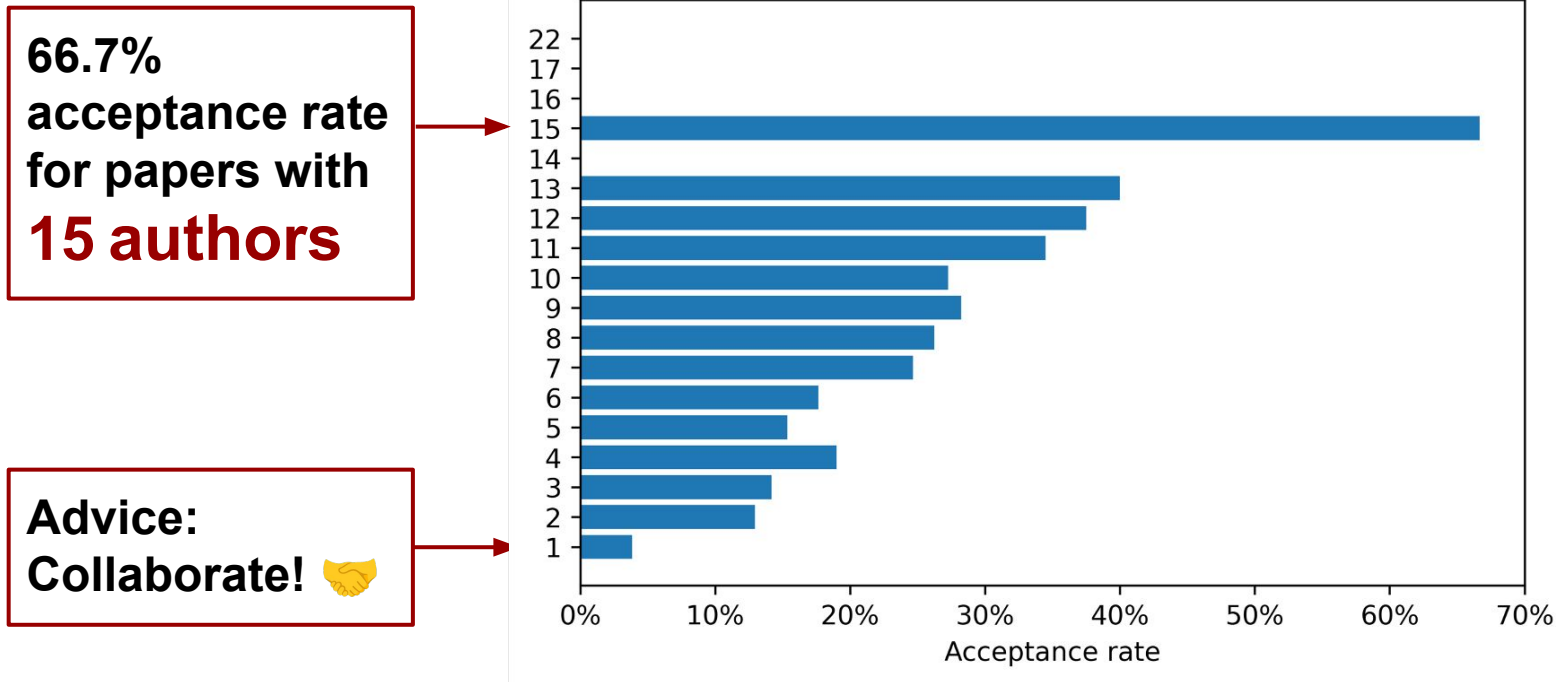
8. Accepted Papers by the Number of Countries
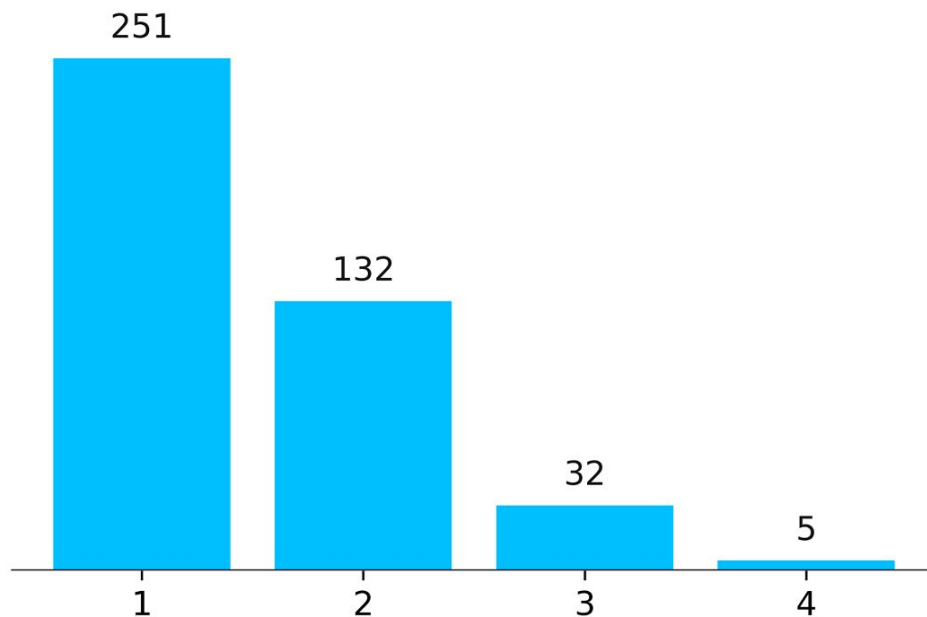
9. Acceptance Rate by the Number of Countries

2x-3x higher acceptance rate for papers collaborated between
4 countries
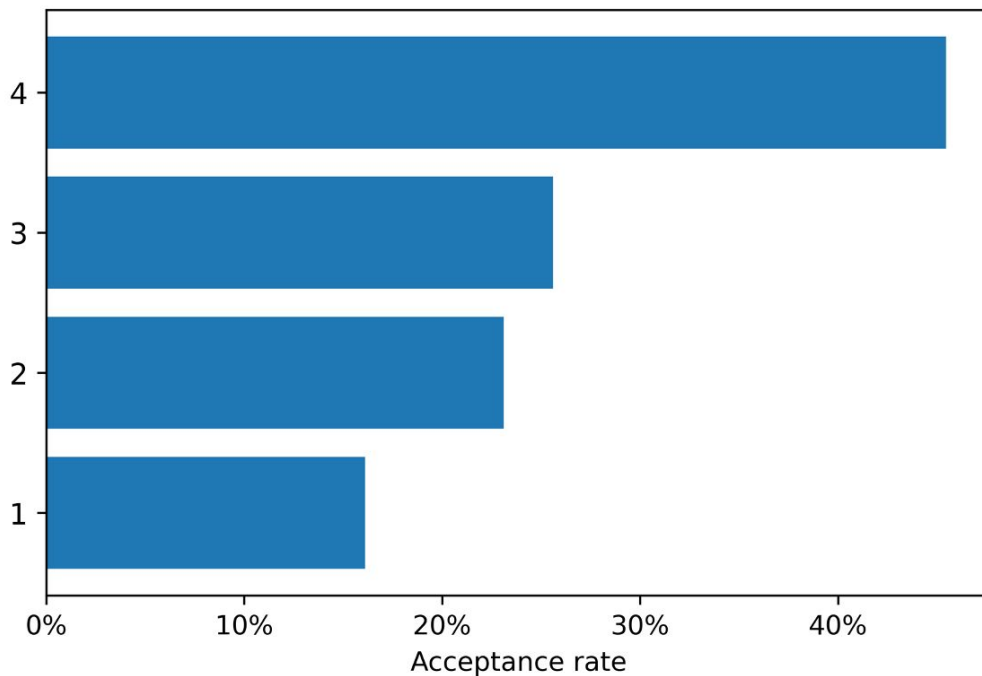
Guarantee Success for USENIX Security 2024

"Hard" Way

Have brilliant ideas, do outstanding work, get interesting results, write superbly, and follow the CFP guidelines.

"Easy" Way

Find **15 co-authors** in **4 countries**, write about **usable security**, and move to **Turkey**.

People to Thank

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HotCRP Comments By Time
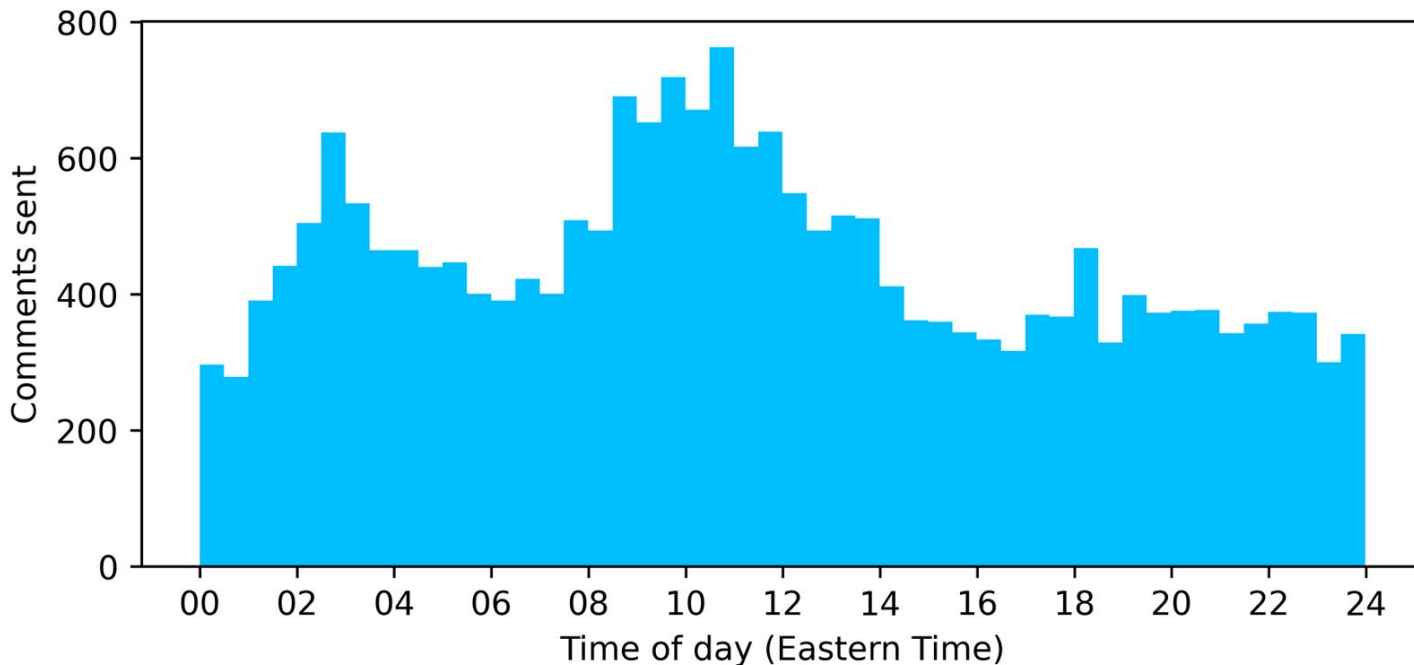
HotCRP Comments By PC Members
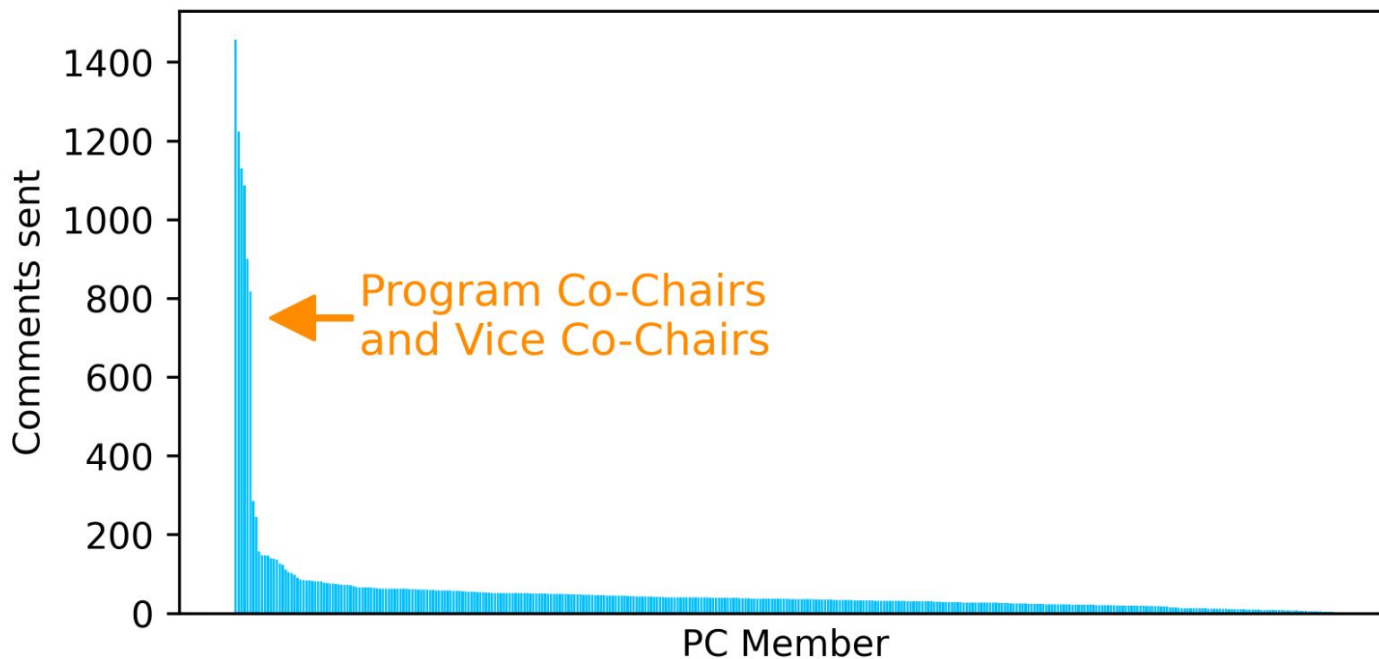
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- USENIX Security' 23 co-chairs

- External reviewers

- All authors who submitted papers

- All of you for coming

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Please meet by the badge pickup area at Registration Desk I
tomorrow at 2:50 pm (during the afternoon break)
for an optional group photograph.

Symposium Activities

Wednesday

Symposium Reception
6:00 pm–7:30 pm
Franklin Hall

Student Meet-Up
7:30 pm–8:30 pm
Conference Rooms 407–409
Refreshments provided by Futurewei

Birds-of-a-Feather Sessions (BoFs)
7:30 pm–10:30 pm

Thursday

Symposium Luncheon
12:00 pm–1:30 pm
Franklin Hall

Poster Session and Happy Hour
6:00 pm–7:30 pm
Franklin Hall

USENIX LGBTQ+ and Allies Happy Hour
7:30 pm–8:30 pm
Conference Rooms 407–409
Refreshments provided by Google

TikTok Sponsor Meetup and Happy Hour
7:30 pm–8:30 pm
Conference Rooms 411–412

Birds-of-a-Feather Sessions (BoFs)
7:30 pm–10:30 pm

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Upcoming USENIX Events

SREcon24 Europe/Middle East/Africa
October 29–31, 2024, Dublin, Ireland

FAST '25: 23rd USENIX Conference
on File and Storage Technologies
February 25–27, 2025, Santa Clara, CA, USA
Submissions due September 17, 2024

SREcon25 Americas
March 25–27, 2025, Santa Clara, CA, USA

NSDI '25: 22nd USENIX Symposium
on Networked Systems Design and Implementation
April 28–30, 2025, Philadelphia, PA, USA
Fall paper titles and abstracts due September 12, 2024

PEPR '25: 2025 USENIX Conference
on Privacy Engineering Practice and Respect
June 9–10, 2025, Santa Clara, CA, USA

2025 USENIX Annual Technical Conference
July 7–9, 2025, Boston, MA, USA
Co-located with OSDI '25
Abstracts due January 7, 2025

OSDI '25: 19th USENIX Symposium
on Operating Systems Design and Implementation
July 7–9, 2025, Boston, MA, USA
Co-located with USENIX ATC '25
Abstracts due December 3, 2024

In Loving Memory of Professor Ross Anderson (Uni Cambridge)

- Groundbreaking Research in Security Protocols and Privacy Technologies
- Influential Contributions to the Economics of Information Security
- Development of Security & Privacy Standards and Policies
- Practical Solutions for Emerging Threats in Digital Systems
- Advancing Understanding and Mitigation of Cybersecurity Risks
- Tremendous Impact on Academia and Industry Worldwide
- Inspiration for countless researchers

Awards

Artifact Awards

Artifact Awards

Distinguished Artifacts

Distinguished Artifact Reviewers

Selected by the **Artifact Chairs**

Phani Vadrevu, Louisiana State University
Anjo Vahldiek-Oberwagner, Intel Labs

Distinguished Artifact Award

PentestGPT:
Evaluating and Harnessing Large Language Models for Automated Penetration Testing

Gelei Deng, Yi Liu, Víctor Mayoral-Vilches, Peng Liu, Yuekang Li, Yuan Xu, Tianwei Zhang, Yang Liu, Martin Pinzger, and Stefan Rass

This paper will be presented on today in Track 5 at 1:45 pm during the "LLM for Security" session.

Distinguished Artifact Award

SafeFetch: Practical Double-Fetch Protection with Kernel-Fetch Caching

Victor Duta, Mitchel Josephus Aloserij, and Cristiano Giuffrida

This paper will be presented on today in Track 3 at 3:15 pm during the "System Security II: OS Kernel" session.

Distinguished Artifact Award

You Cannot Escape Me: Detecting Evasions of SIEM Rules in Enterprise Networks

Rafael Uetz, Marco Herzog, Louis Hackländer,
Simon Schwarz, and Martin Henze

This paper will be presented on Friday in Track 4 at 9:00 am during the "Network Security III: Detection" session.

Distinguished Artifact Award

ChainReactor: Automated Privilege Escalation Chain Discovery via AI Planning

Giulio De Pasquale, Ilya Grishchenko, Riccardo Iesari, Gabriel Pizarro, Lorenzo Cavallaro, Christopher Kruegel, and Giovanni Vigna

This paper will be presented on Friday in Track 6 at 10:45 am during the "Security Analysis IV: OS" session.

Distinguished Artifact Award

Terrapin Attack: Breaking SSH Channel Integrity By Sequence Number Manipulation

Fabian Bäumer, Marcus Brinkmann, and Jörg Schwenk

This paper will be presented on Friday in Track 7 at 4:00 pm during the "Crypto IX: Attacks" session.

Distinguished Artifact Reviewers

Shubham Agarwal

David Balash

Luca Baldesi

Yohan Beugin

Yuzhou Fang

Chen Chen

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Hossam Elatali

Chuanpu Fu

Alexander J. Gaidis

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Gabriel Kaptchuk

Platon Kotzias

Zhiqiang Lin

Allison McDonald

Vladislav Mladenov

Shravan Narayan

Elissa Redmiles

Andrei Sabelfeld

Dokyung Song

Guillermo Suarez-Tangil

Qiang Tang

Mayank Varia

Daniel Votipka

David Wagner

Gang Wang

Daniel Zappala

Mary Ellen Zurko

Distinguished Paper Awards

Distinguished Paper Award

InSpectre Gadget: Inspecting the Residual Attack Surface of Cross-privilege Spectre v2

Sander Wiebing, Alvise de Faveri Tron,
Herbert Bos, and Cristiano Giuffrida

This paper will be presented today at 1:45 pm in Track 2 during the "Side Channel I: Transient Execution" session.

Distinguished Paper Award

Yes, One-Bit-Flip Matters!
Universal DNN Model Inference Depletion
with Runtime Code Fault Injection

Shaofeng Li, Xinyu Wang, Minhui Xue, Haojin Zhu, Zhi Zhang,
Yansong Gao, Wen Wu, and Xuemin (Sherman) Shen

This paper will be presented today at 3:15 pm in Track 5 during the "ML II: Fault Injection and Robustness" session.

Distinguished Paper Award

HYPERPILL: Fuzzing for Hypervisor-bugs by Leveraging the Hardware Virtualization Interface

Alexander Bulekov, Qiang Liu, Manuel Egele, and Mathias Payer

This paper will be presented today at 1:45 pm in Track 6 during the "Fuzzing I: Software" session.

Distinguished Paper Award

Indirector: High-Precision Branch Target Injection Attacks Exploiting the Indirect Branch Predictor

Luyi Li, Hosein Yavarzadeh, and Dean Tullsen

This paper will be presented tomorrow at 9:00 am in Track 2 during the "Side Channel III" session.

Distinguished Paper Award

Data Coverage for Guided Fuzzing

Mingzhe Wang, Jie Liang, Chijin Zhou, Zhiyong Wu, Jingzhou Fu,
Zhuo Su, Qing Liao, Bin Gu, Bodong Wu, and Yu Jiang,

This paper will be presented tomorrow at 9:00 am in Track 6 during the "Fuzzing II: Method" session.

Distinguished Paper Award

Adversarial Illusions in Multi-Modal Embeddings

Tingwei Zhang, Rishi Jha, Eugene Bagdasaryan, and Vitaly Shmatikov

This paper will be presented tomorrow at 10:45 am in Track 5 during the "ML VI: Digital Adversarial Attacks" session.

Distinguished Paper Award

Logic Gone Astray: A Security Analysis Framework for the Control Plane Protocols of 5G Basebands

Kai Tu, Abdullah Al Ishtiaq, Syed Md Mukit Rashid, Yilu Dong, Weixuan Wang, Tianwei Wu, and Syed Rafiul Hussain

This paper will be presented tomorrow at 10:45 am in Track 6 during the "Security Analysis III: Protocol" session.

Distinguished Paper Award

Digital Discrimination of Users in Sanctioned States: The Case of the Cuba Embargo

Anna Ablove, Shreyas Chandrashekaran, Hieu Le, Ram Sundara Raman, Reethika Ramesh, Harry Oppenheimer, and Roya Ensafi

This paper will be presented tomorrow at 3:15 pm in Track 1 during the "Measurement III: Auditing and Best Practices I" session.

Distinguished Paper Award

PURE: Payments with UWB RElay-protection

Daniele Coppola, Giovanni Camurati, Claudio Anliker, Xenia Hofmeier, Patrick Schaller, David Basin, and Srdjan Capkun

This paper will be presented tomorrow at 4:30 pm in Track 3 during the "Mobile Security II" session.

Distinguished Paper Award

Smudged Fingerprints:
Characterizing and Improving the Performance
of Web Application Fingerprinting

Brian Kondracki and Nick Nikiforakis

This paper will be presented tomorrow at 4:30 pm in Track 4 during the "Measurement IV: Web" session.

Distinguished Paper Award

Don't Listen To Me: Understanding and Exploring Jailbreak Prompts of Large Language Models

Zhiyuan Yu, Xiaogeng Liu, Shunning Liang, Zach Cameron,
Chaowei Xiao, and Ning Zhang

This paper will be presented tomorrow at 4:30 pm in Track 5 during the "LLM II: Jailbreaking" session.

Distinguished Paper Award

"I Don't Know If We're Doing Good. I Don't Know If We're Doing Bad": Investigating How Practitioners Scope, Motivate, and Conduct Privacy Work When Developing AI Products

Hao-Ping (Hank) Lee, Lan Gao, Stephanie Yang,
Jodi Forlizzi, and Sauvik Das

This paper will be presented Friday at 9:00 am in Track 1 during the "User Studies V: Policies and Best Practices II" session.

Distinguished Paper Award

Learning with Semantics:
Towards a Semantics-Aware Routing Anomaly Detection System

Yihao Chen, Qilei Yin, Qi Li, Zhuotao Liu, Ke Xu, Yi Xu, Mingwei Xu, Ziqian Liu, and Jianping Wu

This paper will be presented Friday at 9:00 am in Track 4 during the "Network Security III: Detection" session.

Distinguished Paper Award

WhisperFuzz: White-Box Fuzzing for Detecting and Locating Timing Vulnerabilities in Processors

Pallavi Borkar, Chen Chen, Mohamadreza Rostami, Nikhilesh Singh, Rahul Kande, Ahmad-Reza Sadeghi, Chester Rebeiro, and Jeyavijayan Rajendran

This paper will be presented Friday at 9:00 am in Track 6 during the "Fuzzing IV: Hardware and Firmware" session.

Distinguished Paper Award

ENG25519: Faster TLS 1.3 handshake using optimized X25519 and Ed25519

Jipeng Zhang, Junhao Huang, Lirui Zhao,
Donglong Chen, and Çetin Kaya Koç

This paper will be presented Friday at 1:15 pm in Track 6 during the "Crypto VI: Security Analysis" session.

Distinguished Paper Award

DVSorder: Ballot Randomization Flaws Threaten Voter Privacy

Braden L. Crimmins, Dhanya Y. Narayanan, Drew Springall, and J. Alex Halderman

This paper will be presented Friday at 2:45 pm in Track 1 during the "Social Issues IV" session.

Distinguished Paper Award

Dancer in the Dark: Synthesizing and Evaluating Polyglots for Blind Cross-Site Scripting

Robin Kirchner, Jonas Möller, Marius Musch, David Klein,
Konrad Rieck, and Martin Johns

This paper will be presented Friday at 2:45 pm in Track 4 during the "Web Security III: XSS and PHP" session.

Distinguished Paper Award

Terrapin Attack: Breaking SSH Channel Integrity By Sequence Number Manipulation

Fabian Bäumer, Marcus Brinkmann, and Jörg Schwenk

This paper will be presented Friday at 4:00 pm in Track 7 during the "Crypto IX: Attacks" session.

Congratulations to the
2024 Internet Defense Prize Winner

Learning with Semantics:
Towards a Semantics-Aware Routing Anomaly
Detection System

Yihao Chen, Qilei Yin, Qi Li, Zhuotao Liu, Ke Xu, Yi Xu,
Mingwei Xu, Ziqian Liu, and Jianping Wu

This paper will be presented Friday at 9:00 am in Track 4 during the "Network Security III: Detection" session.

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- Cycle 1 submissions due **Wednesday, September 4, 2024**
- Cycle 2 submissions due **Wednesday, January 22, 2025**

Keynote Address

A World Where We Trust Hard-Won Lessons in Security Research, Technology, and People

David Brumley, *ForAllSecure and CMU*