Opening Remarks Program Chairs

Christina Pöpper
New York University Abu Dhabi

Hamed Okhravi
MIT Lincoln Laboratory

NDSS SYMPOSIUM/2025

Presented by
Internet Society

#NDSSSymposium2025

Welcome to the 32ⁿᵈ NDSS Symposium

NDSS'25 in Selected Numbers

NDSS SYMPOSIUM/2025

Presented by

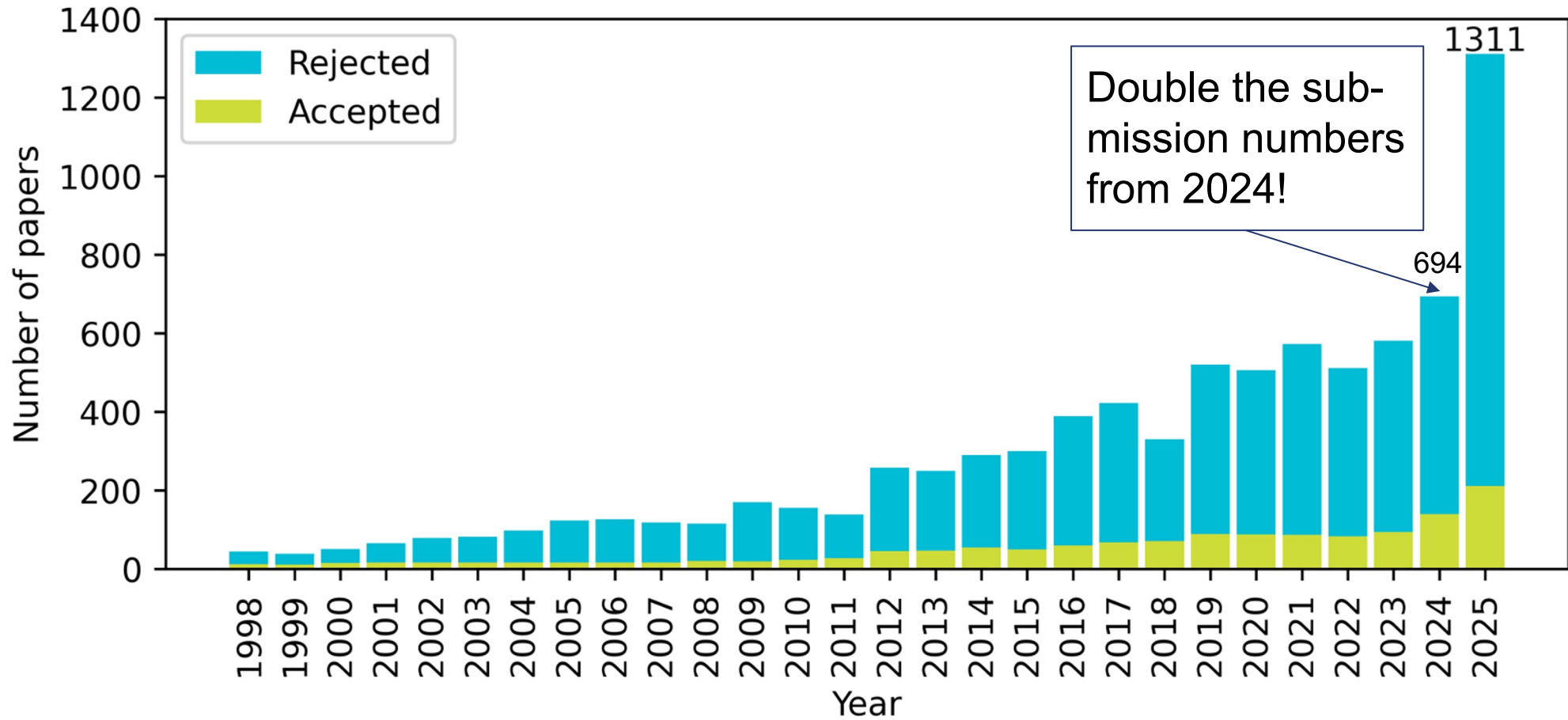Internet Society

Statistics

Accepted Papers: 211

Submissions:

- Summer: 365 (+ 9 Desk Rejects)

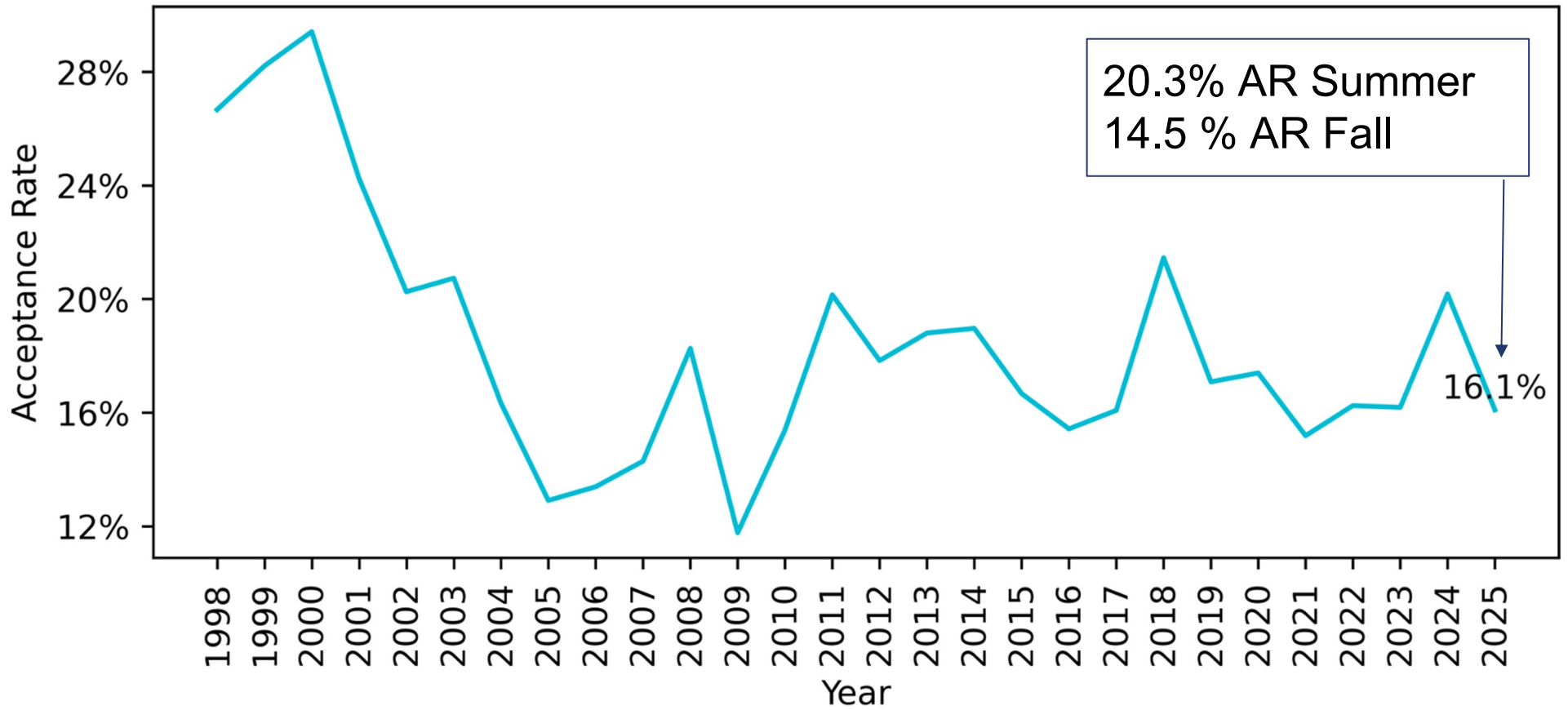- Fall: 946 (+ 49 Desk Rejects)

    ⇒ 1311 Valid Submissions

167 PC members, 3629 Reviews, 9576 Discussion Comments
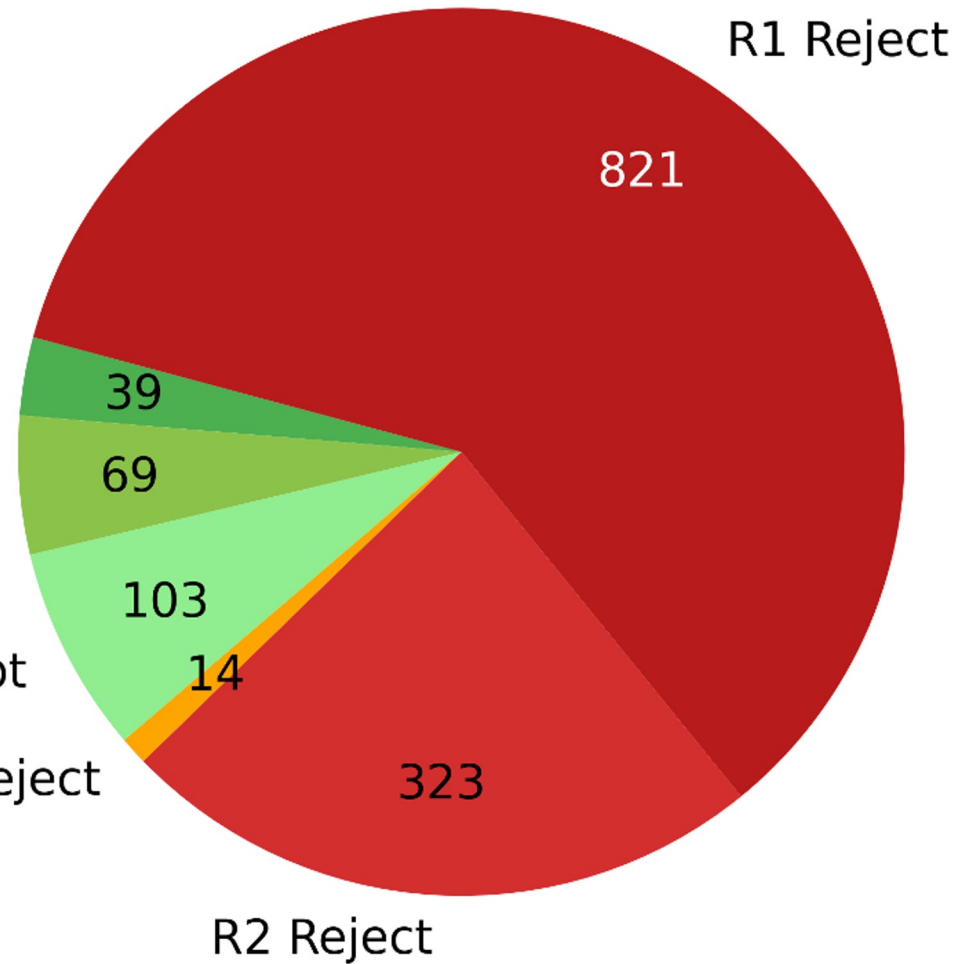
NDSS Growth

Historical Acceptance Rates

20.3% AR Summer
14.5 % AR Fall

16.1%

Paper Decisions During the Review Process

100% acceptance rate for
Minor Revisions

87.3% acceptance rate for
Major Revisions

R1 Reject — 821
Accept — 39
Minor Revision -> Accept — 69
Major Revision -> Accept — 103
Major Revision -> Reject — 14
R2 Reject — 323

Paper Decisions During the Review Process
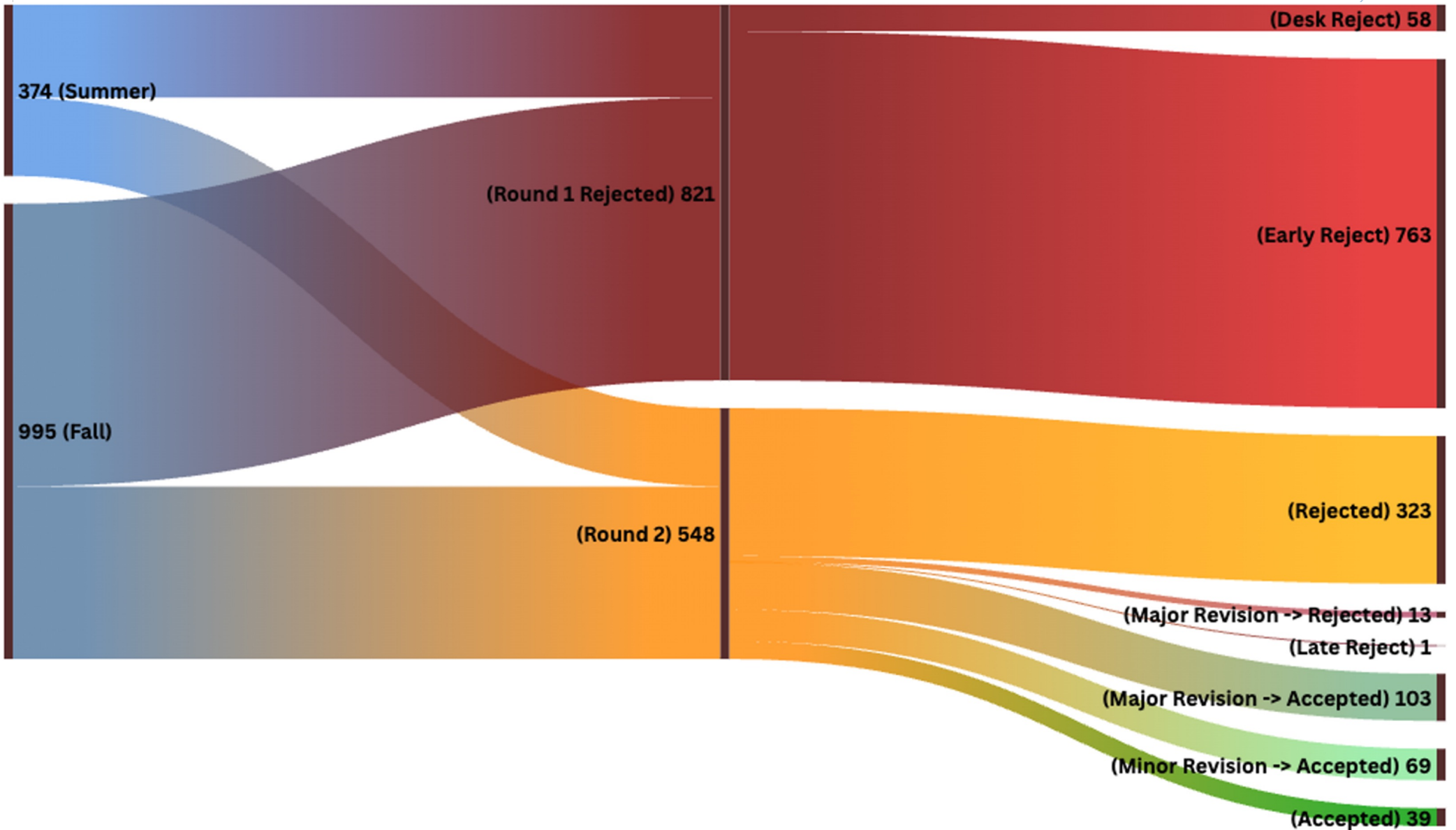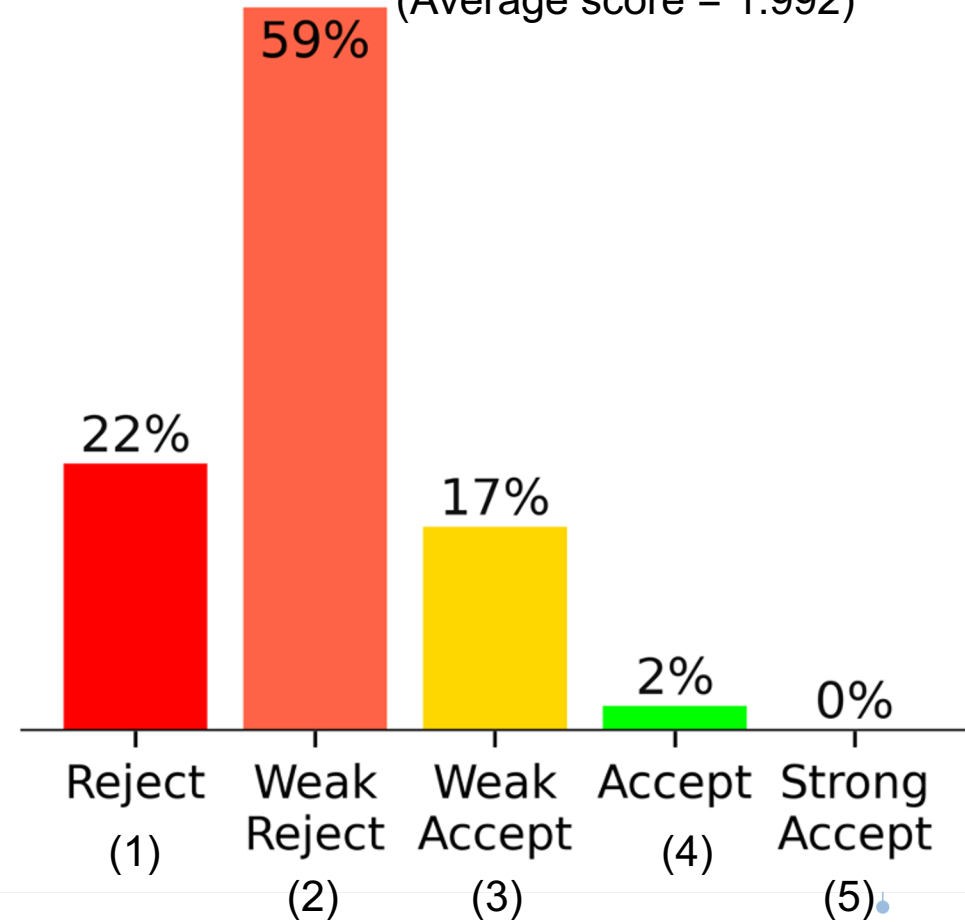
Review Scores for Accepted and Rejected Papers
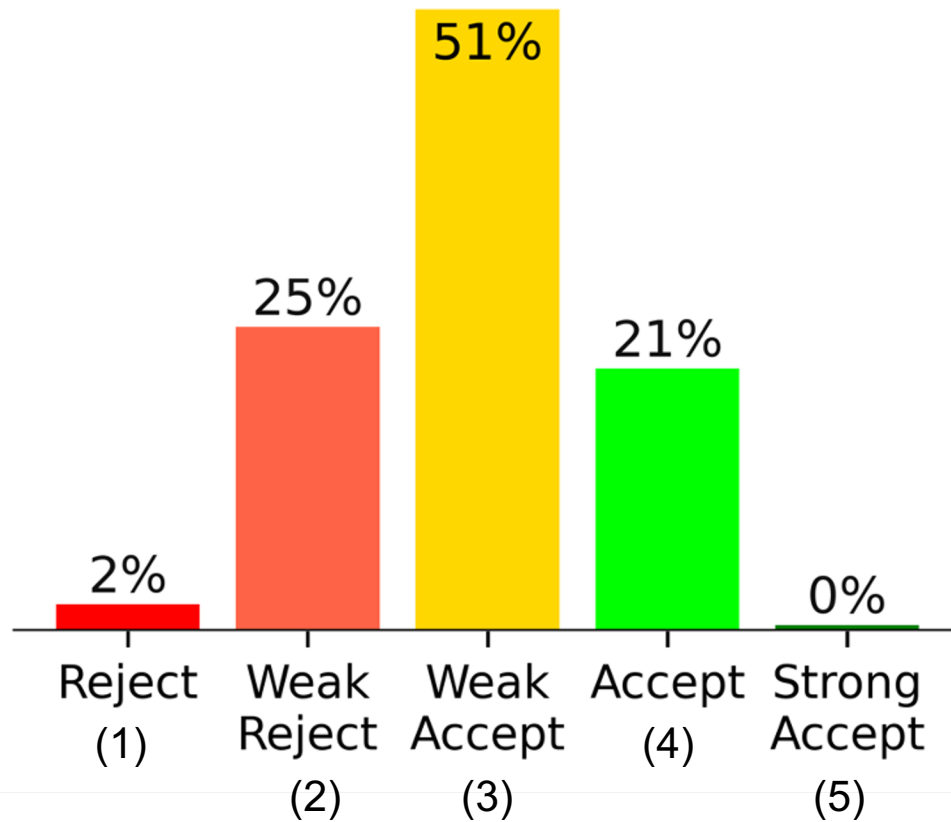
Rejected Papers by Topic 😢

1st: ML/AI/LLM Security
2nd: SW/FW/HW Analysis

Accepted Papers by Topic 👍

1st: ML/AI/LLM Security
2nd: SW/FW/HW Analysis

Chart: Number of papers (Accepted / Rejected) by topic, sorted from most to least:
- ML/AI/LLM Security
- Software/Firmware/Hardware Analysis
- Usable Security and Privacy
- Web-based Applications and Services
- Mobile/Smartphone Platforms
- Network Privacy/Anonymity
- Trustworthy Computing
- Mobile/Wireless Security
- Special Problems and Case Studies
- Cloud/Edge Computing
- Blockchains/Cryptocurrencies
- Cyber Attacks
- Anti-malware
- Cyber-Physical Systems
- Emerging Networks
- Large-scale Critical Infrastructures
- Network Security Policies
- Cyber Crime
- Network Protocol Security
- Future Internet Architectures
- PKI/Key Management

Legend: Accepted, Rejected

X-axis: Number of papers (400, 300, 200, 100, 0)

Presented by Internet Society

Acceptance Rate by Topic

1st Large-Scale Critical Infrastructures
2nd Trustworthy Computing

ML/AI/LLM Security

16.1% overall AR
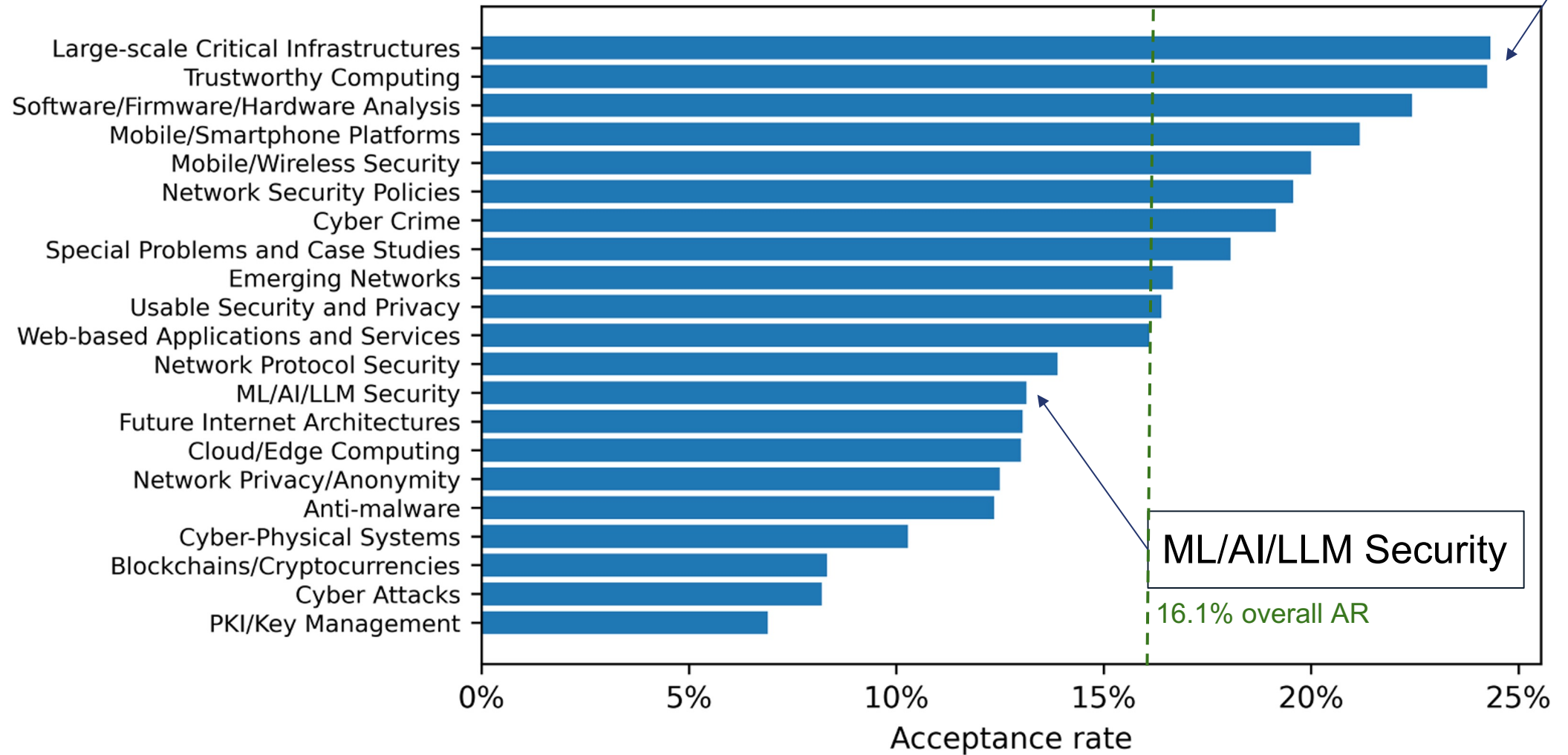
NDSS'25 Review Process Insights

TPC Members - Thank You

167 PC members

Max # of reviews: 27

Avg # of reviews: 22

Abhishta Abhishta, University of Twente
Adam Bates University of Illinois at Urbana-Champaign
Adwait Nadkarni, William & Mary
Ahmad-Reza Sadeghi, TU Darmstadt
Alessandro Sorniotti, IBM Research Europe
Alexandra Dmitrienko, University of Wuerzburg
Ali Abbasi, CISPA Helmholtz Center for Information Security
Alvaro Cardenas, University of California, Santa Cruz
Amy Babay, University of Pittsburgh
Ang Li, The University of Michigan-Dearborn
Angelos Stavrou, Virginia Tech
Antonio Villani, Retooling
Aolin Ding, Accenture Labs
Aravind Machiry, Purdue University
Awais Rashid, University of Bristol
Bahruz Jabiyev, Dartmouth College
Bart Coppens, Ghent University
Ben Stock, CISPA Helmholtz Center for Information Security
Benjamin Ujcich, Georgetown University
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
Faysal Hossain Shezan, University of Texas at Arlington
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
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
Habiba Farrukh, University of California, Irvine
Haibin Zhang, Yangtze Delta Region Institute of Tsinghua U.
Haipeng Cai, Washington State University
Han Qiu, Tsinghua University
Haojin Zhu, Shanghai Jiao Tong University
Hong Hu, Pennsylvania State University
Hongxin Hu, University at Buffalo
Hossein Fereidooni, KOBIL GmbH
Houman Homayoun, University of California Davis
Hyungsub Kim, Purdue University & Indiana University
Imtiaz Karim, Purdue University
Insu Yun, KAIST
Ivan Martinovic, University of Oxford
Jason (Minhui) Xue, CSIRO's Data61
Jianjun Chen, Tsinghua University
Juan Tapiador, Carlos III University of Madrid
Jun Xu, University of Utah
Juraj Somorovsky, Paderborn University
JV Rajendran, Texas A&M University
Kai Li, San Diego State University
Kaihua Qin, Yale University
Kaushal Kafle, University of Florida
Kevin Borgolte, Ruhr University Bochum
Kevin Leach, Vanderbilt University
Kun Sun, George Mason University
Kyungtae Kim, Dartmouth College
Lannan Lisa Luo, George Mason University
Le Guan, University of Georgia
Lejla Batina, Radboud University
Lingyu Wang, Concordia University
Lorenzo Cavallaro, University College London
Manuel Egele, Boston University
Marcus Botacin, Texas A&M University

Marcus Peinado, Microsoft Research
Marko Vukolic, ConsensusLab
Martin Strohmeier, Cyber-Defence Campus, armasuisse
Martin Henze, RWTH Aachen University & Fraunhofer FKIE
Martin Johns, TU Braunschweig
Mathias Payer, EPFL
Matteo Grosse-Kampmann, Rhine-Waal University / AWARE7 GmbH
Meng Luo, Zhejiang University
Meng Xu, University of Waterloo
Michael Schwarz, CISPA Helmholtz Center for Information Security
Mihalis Maniatakos, NYU Abu Dhabi
Min Suk Kang, KAIST
Ming Li, The University of Texas at Arlington
Minghong Fang, Duke University
Mingxue Zhang Zhejiang University
Mitsuaki Akiyama, NTT
Mohammad Islam, University of Texas at Arlington
Mu Zhang, University of Utah
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
Omar Chowdhury, Stony Brook University
Paria Shirani, University of Ottawa
Peng Gao, Virginia Tech
Per Larsen, Immunant, Inc.
Phani Vadrevu, Louisiana State University
Prashast Srivastava, Columbia University
Qi Li, Tsinghua University
Qiang Tang, The University of Sydney
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
Shagufta Mehnaz, Pennsylvania State University
Shahin Tajik, Worcester Polytechnic Institute
Sherman S. M. Chow, Chinese University of Hong Kong
Shweta Shinde, ETH Zurich
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
Xiaokuan Zhang, George Mason University
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

NDSS
SYMPOSIUM/2025

Presented by

Internet Society

TPC Subcommittees - Special Thanks

Topic-Concern Assessment Committee

- Lorenzo Cavallaro, Ghassan Karame, Ivan Martinovic, Mathias Payer, Stjepan Picek, William Robertson, Ben Stock
- Assessed 101 papers we had flagged for possible topic concerns
- 34 papers desk rejected

Ethics Review Board

- Srdjan Capkun (Chair), Rachel Greenstadt, Aravind Machiry, René Mayrhofer, William Robertson, Juan Tapiador
- Assessed 49 papers with Ethical Concerns
- Interactive process with the authors to address concerns

Distinguished Paper Selection Committee → More tomorrow

Ethics

NDSS promotes, upholds, & defends professional conduct + ethical academic behavior

Zero tolerance for

- Simultaneous submission to other conferences → rejection from both venues
- Borderline double submission in Summer and Fall Cycle
  → early reject of Fall submission
- Unethical attempts of author(s) to interfere with the review process (Author-Reviewer Favoritism & Disclosure of Reviewer Identities)
  → late paper reject after acceptance

Further case-by-case investigations

- Suspicion of AI-generated text in papers and reviews
- Suspicion of plagiarism
- Suspicion of retaliation
- Benefits vs. Risks of security research (such as attacking real-world systems)

Ethics

Cross-Conference Response: NDSS is part of ACM SIGSAC PROTECT

- PROTECT = SIGSAC Committee on Preserving Professional Conduct and Academic Ethics), established in Fall 2024
- NDSS TPC Co-Chairs & Steering Committee Representative
- Coordination with PC chairs of all first-tier security conferences
- Continuous discussion of protection mechanisms (manual reviewer bidding vs. automatic assignments, restrictive reviewer identity sharing vs. anonymous reviewer discussions, etc.)

Current status:

- Single allegation: in dubio pro reo | Accumulated evidence: Strict reaction
- Focus on prevention / defense mechanisms rather than punishment
- Report unethical behavior in reviews of computer security conferences: https://forms.gle/bcCfB5TmCvSiXnsf7 → ~10 cases submitted / under investigation

Committee

- Somesh Jha
- Ninghui Li
- Christina Pöpper
- Zhiqiang Lin
- Lujo Bauer
- Véronique Cortier
- William Enck
- Thorsten Holz
- Trent Jaeger
- Engin Kirda
- David Lie
- Cristina Nita-Rotaru
- Hamed Okhravi
- Mathias Payer
- Giancarlo Pellegrino
- Michael Reiter
- Yinqian Zhang

Presented by
Internet Society

NDSS
SYMPOSIUM/2025

Further Thanks go to …

David Balenson - Organizing Committee Chair

Mridula Singh and Hyungsub Kim for handling the Proceedings

Robin Wilton from ISOC - bridge between Program Co-Chairs, Organizing Committee and ISOC

External reviewers (we needed your expert knowledge!)

All **authors** who submitted papers (you keep pushing boundaries!)

All of you for coming (you will make the next big breakthrough!)

NDSS
SYMPOSIUM/2025

Presented by
Internet Society

Good Security …

… is like good health - You only realize how bad yours is when it is too late.