29th USENIX Security Symposium
August 12–14, 2020 • Boston, MA, USA
Sponsored by USENIX, the Advanced Computing Systems Association

Symposium Overview
The USENIX Security Symposium brings together researchers, practitioners, system administrators, system programmers, and others interested in the latest advances in the security and privacy of computer systems and networks. The 28th USENIX Security Symposium will be held August 12–14, 2020, in Boston, MA, USA.

Important: The USENIX Security Symposium moved to multiple submission deadlines last year and included changes to the review process and submission policies. Detailed information is available on the USENIX Security Publication Model Changes web page at www.usenix.org/conference/usenixsecurity20/publication-model-change.

All researchers are encouraged to submit papers covering novel and scientifically significant practical works in computer security. The Symposium will span three days with a technical program including refereed papers, invited talks, posters, panel discussions, and Birds-of-a-Feather sessions. Co-located events will precede the Symposium on August 10 and 11.

Important Dates
Spring Quarter Deadline
• Refereed paper submissions due: Wednesday, May 15, 2019, 8:00 pm EDT
• Early reject notification: Monday, June 17, 2019
• Author responses due: Friday, June 21, 2019
• Notification to authors: Monday, August 19, 2019
• Final papers due: Thursday, September 19, 2019, 11:59 pm EDT

Summer Quarter Deadline
• Refereed paper submissions due: Friday, August 23, 2019, 8:00 pm EDT
• Early reject notification: Monday, September 23, 2019
• Author responses due: Friday, September 27, 2019
• Notification to authors: Friday, November 1, 2019
• Final papers due: Monday, December 2, 2019, 11:59 pm EDT

Fall Quarter Deadline
• Refereed paper submissions due: Friday, November 15, 2019, 8:00 pm EDT
• Early reject notification: Sunday, December 15, 2019
• Author responses due: Friday, December 20, 2019
• Notification to authors: Saturday, February 1, 2020
• Final papers due: Monday, March 2, 2020, 11:59 pm EDT

Winter Quarter Deadline
• Refereed paper submission due: Saturday, February 15, 2020, 8:00 pm EDT
• Early reject notification: Sunday, March 15, 2020
• Author responses due: Friday, March 20, 2020
• Notification to authors: Friday, May 1, 2020
• Final papers due: Monday, June 1, 2020, 11:59 pm EDT

• Invited talk and panel proposals due: Friday, February 14, 2020, 8:00 pm EST
• Poster proposals due: Tuesday, July 7, 2020, 9:00 pm EDT
  • Notification to poster presenters: Tuesday, July 14, 2020
• Lightning talks information will be available soon.

Symposium Organizers
Program Co-Chairs
Srdjan Capkun, ETH Zurich
Franziska Roesner, University of Washington

Program Committee
TBA

Steering Committee
Matt Blaze, University of Pennsylvania
Dan Boneh, Stanford University
William Enck, North Carolina State University
Kevin Fu, University of Michigan
Casey Henderson, USENIX Association
Thorsten Holz, Ruhr-Universität Bochum
Jaeyeon Jung, Samsung Electronics
Engin Kirda, Northeastern University
Tadayoshi Kohno, University of Washington
Adrienne Porter Felt, Google
Thomas Ristenpart, Cornell Tech
David Wagner, University of California, Berkeley

Symposium Topics
Referred paper submissions are solicited in all areas relating to systems research in security and privacy, including but not limited to:

• System security
  • Operating systems security
  • Web security
  • Mobile systems security
  • Distributed systems security
  • Cloud computing security
• Network security
  • Intrusion and anomaly detection and prevention
  • Network infrastructure security
  • Denial-of-service attacks and countermeasures
  • Wireless security
• Security analysis
  • Malware analysis
  • Analysis of network and security protocols
  • Attacks with novel insights, techniques, or results
  • Forensics and diagnostics for security
  • Automated security analysis of hardware designs and implementation
  • Automated security analysis of source code and binaries
• Program analysis
• Data-driven security and measurement studies
  • Measurements of fraud, malware, spam
  • Measurements of human behavior and security
• Privacy-enhancing technologies and anonymity
• Usable security and privacy
• Language-based security
• Hardware security
  • Secure computer architectures
  • Embedded systems security
  • Methods for detection of malicious or counterfeit hardware
  • Side channels
• Research on surveillance and censorship
• Social issues and security
  • Research on computer security law and policy
  • Ethics of computer security research
  • Research on security education and training
• Applications of cryptography
  • Analysis of deployed cryptography and cryptographic protocols
  • Cryptographic implementation analysis
  • New cryptographic protocols with real-world applications

This topic list is not meant to be exhaustive; USENIX Security is interested in all aspects of computing systems security and privacy. Papers without a clear application to security or privacy, however, will be considered out of scope and may be rejected without full review.

Referred Papers
Papers that have been formally reviewed and accepted will be presented during the Symposium and published in the Symposium Proceedings. By submitting a paper, you agree that at least one of the authors will attend the conference to present it. If the conference registration fee will pose a hardship for the presenter of the accepted paper, please contact confer-ence@usenix.org.

A major mission of the USENIX Association is to provide for the creation and dissemination of new knowledge. In keeping with this and as part of USENIX’s open access policy, the Proceedings will be available online for registered attendees before the Symposium and for everyone starting on the opening day of the technical sessions. USENIX also allows authors to retain ownership of the copyright in their works, requesting only that USENIX be granted the right to be the first publisher of that work. See our sample consent form at www.usenix.org/2019_sample_consent.pdf for the complete terms of publication.

Go to Paper Submission Policies and Instructions page at www.usenix.org/conference/usenixsecurity20/submission-policies-instructions for more information.

Symposium Activities
Invited Talks, Panels, Poster Session, and BoFs
In addition to the referred papers and the keynote presentation, the technical program will include invited talks, panel discussions, a poster session, and Birds-of-a-Feather sessions (BoFs). You are invited to make suggestions regarding topics or speakers in any of these sessions via email to the contacts listed below or to the program co-chairs at sec20chairs@usenix.org.

Invited Talks and Panel Discussions
Invited talks and panel discussions will be held in parallel with the referred paper sessions. Please submit topic suggestions and talk and panel proposals via email to sec20it@usenix.org by Friday, February 14, 2020, 8:00 pm EST.

Poster Session
Would you like to share a provocative opinion, an interesting preliminary work, or a cool idea that will spark discussion at this year’s USENIX Security Symposium? The poster session is the perfect venue to introduce such new or ongoing work. Poster presenters will have the entirety of the evening reception to discuss their work, get exposure, and receive feedback from attendees.

To submit a poster, please submit a draft of your poster, in PDF (maximum size 36" by 48"), or a one-page abstract via the poster session submission form linked from the USENIX Security ’20 website at www.usenix.org/sec20/cfp by Tuesday, July 7, 2020, 9:00 pm EDT. Decisions will be made by Tuesday, July 14, 2020. Posters will not be included in the proceedings but may be made available online if circumstances permit. Poster submissions must include the authors’ names, affiliations, and contact information. At least one author of each accepted poster must register for and attend the Symposium to present the poster.

Lightning Talks
Information about lightning talks will be available soon.

Birds-of-a-Feather Sessions (BoFs)
Birds-of-a-Feather sessions (BoFs) will be held Tuesday, Wednesday, and Thursday evenings. Birds-of-a-Feather sessions are informal gatherings of persons interested in a particular topic. BoFs often feature a presentation or a demonstration followed by discussion, announcements, and the sharing of strategies. BoFs can be scheduled on site or in advance. To schedule a BoF, please send email to the USENIX Conference Department at bofs@usenix.org with the title and a brief description of the BoF, the name, title, affiliation, and email address of the facilitator; and your preference of date and time.

Submission Policies
USENIX Security ’20 submissions deadlines are as follows:
• Spring Quarter: Wednesday, May 15, 2019, 8:00 pm EDT
• Summer Quarter: Friday, August 23, 2019, 8:00 pm EDT
• Fall Quarter: Friday, November 15, 2019, 8:00 pm EDT
• Winter Quarter: Saturday, February 15, 2020, 8:00 pm EDT

All papers that are accepted by the end of the winter submission reviewing cycle (February–May 2020) will be invited to present at USENIX Security ’20. All submissions will be made online via their respective web forms: spring quarter, summer quarter, fall quarter, winter quarter. Do not email submissions. Submissions should be finished, complete papers, and we may reject papers without review that have severe editorial problems (broken references, egregious spelling or grammar errors, missing figures, etc.) or are submitted in violation of the Submission Instructions outlined below.

Paper submissions should be at most 13 typeset pages, excluding bibliography and well-marked appendices. These appendices may be included to assist reviewers who may have questions that fall outside the stated
corrections. Authors to focus on questions posed by reviewers and significant factual opportunity to respond to an initial round of reviews. We encourage Authors of papers that have not been rejected early will have an opportunity to improve their work and submit to other venues, allowing authors time to improve their work and submit to other venues, or (5) close personal friendships. For instance, we will ask authors to identify members of the program committee with whom they share a conflict of interest. This includes: (1) anyone who shares an institutional affiliation with an author at the time of submission, (2) anyone who was the advisor or advisee of an author at any time in the past, (3) anyone the author has collaborated or published with in the prior two years, (4) anyone who is serving as the sponsor or administrator of a grant that funds your research, or (5) close personal friendships. For other forms of conflict, authors must contact the chairs and explain the perceived conflict.

Program committee members who are conflicts of interest with a paper, including program co-chairs, will be excluded from both online and in-person evaluation and discussion of the paper by default.

Early Rejection Notification
The review process will consist of several reviewing rounds. In order to allow authors time to improve their work and submit to other venues, authors of submissions for which there is a consensus on rejection will be notified earlier.

Author Responses
Authors of papers that have not been rejected early will have an opportunity to respond to an initial round of reviews. We encourage authors to focus on questions posed by reviewers and significant factual corrections.

Anonymous Submission
The review process will be double blind. Papers must be submitted in a form suitable for anonymous review:

- The title page should not contain any author names or affiliations.
- Authors should carefully review figures and appendices (especially survey instruments) to ensure affiliations are not accidentally included.
- When referring to your previous work, do so in the third person, as though it were written by someone else. Only blind the reference itself in the unusual case that a third-person reference is infeasible.
- Authors may include links to websites that contain source code, tools, or other supplemental material. The link in the paper should not contain the author's name or affiliation. However, the website itself may contain the authors' names and affiliations.

Papers that are not properly anonymized may be rejected without review.

While submitted papers must be anonymous, authors may choose to give talks about their work, post a preprint of the paper online, disclose security vulnerabilities to vendors or the public, etc. during the review process.

Facebook Internet Defense Prize
The Internet Defense Prize recognizes and rewards research that meaningfully makes the internet more secure. Created in 2014, the award is funded by Facebook and offered in partnership with USENIX to celebrate contributions to the protection and defense of the internet. Successful recipients of the Internet Defense Prize will provide a working prototype that demonstrates significant contributions to the security of the internet, particularly in the areas of prevention and defense. This award is meant to recognize the direction of the research and not necessarily its progress to date. The intent of the award is to inspire researchers to focus on high-impact areas of research.

You may submit your USENIX Security ‘20 paper submission for consideration for the Prize as part of the regular submission process. Find out more about the Internet Defense Prize at internetdefenseprize.org/.

Human Subjects and Ethical Considerations
Submissions that describe experiments on human subjects, that analyze data derived from human subjects (even anonymized data), or that otherwise may put humans at risk should:

1. Disclose whether the research received an approval or waiver from each of the authors’ institutional ethics review boards (e.g., an IRB).
2. Discuss steps taken to ensure that participants and others who might have been affected by an experiment were treated ethically and with respect.

If the submission deals with vulnerabilities (e.g., software vulnerabilities in a given program or design weaknesses in a hardware system), the authors need to discuss in detail the steps they have already taken or plan to take to address these vulnerabilities (e.g., by disclosing vulnerabilities to the vendors). The same applies if the submission deals with personally identifiable information (PII) or other kinds of sensitive data. If a paper raises significant ethical and legal concerns, it might be rejected based on these concerns.

Contact the program co-chairs at sec20chairs@usenix.org if you have any questions.
All submissions will be judged on originality, relevance, correctness, and clarity. In addition to citing relevant published work, authors should relate their submission to any other relevant submissions of theirs in other venues that are under review at the same time as their submission to the Symposium. These citations to simultaneously submitted papers should be anonymized; non-anonymous versions of these citations must, however, be emailed to the program co-chairs at sec20chairs@usenix.org. Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes dishonesty or fraud. Failure to point out and explain overlap will be grounds for rejection. USENIX, like other scientific and technical conferences and journals, prohibits these practices and may take action against authors who have committed them. See the USENIX Conference Submissions Policy at www.usenix.org/conferences/author-resources/submissions-policy for details.

Note that under the changes to the USENIX Security publication model, papers that have received a decision of Major Revisions from USENIX Security are still considered to be under review for the following two review cycles after notification; authors must formally withdraw their paper if they wish to submit to another venue. See the USENIX Security Publication Model Changes web page at www.usenix.org/conference/usenixsecurity20/publication-model-change for details. For submissions that received Reject or Reject and Resubmit decisions from USENIX Security ’19, resubmissions must follow the rules laid out for when they can be resubmitted (i.e., not in the next two deadlines for Reject and Resubmit, and not in the next three deadlines for Reject).

Questions? Contact your program co-chairs, sec20chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

The program committee and external reviewers are required to treat all submissions as confidential. However, the program co-chairs or designated committee members may share submissions outside the program committee to allow chairs of other conferences to identify dual submissions.

Papers that do not comply with the submission requirements, including length and anonymity, that do not comply with resubmission policies, or that do not have a clear application to security or privacy may be rejected without review. Papers accompanied by nondisclosure agreement forms will not be considered.

Each accepted submission may be assigned a member of the program committee to act as its shepherd through the preparation of the final paper. The assigned member will act as a conduit for feedback from the committee to the authors.

All papers will by default be available online to registered attendees before the symposium. If your accepted paper should not be published prior to the event, please notify production@usenix.org. The papers will be available online to everyone beginning on the first day of the symposium, August 12, 2020.

Specific questions about submissions may be sent to the program co-chairs at sec20chairs@usenix.org. The chairs will respond to individual questions about the submission process if contacted at least a week before the submission deadline.