IEEE Computer Society's Technical Committee on Security and Privacy (TCSP)

2021 TCSP Business Meeting

May 26, 2021

Cyberspace
Agenda

- IEEE S&P finances & registration
- IEEE S&P Shadow PC Report
- TCSP Status Report for 2021
- Service Awards
- Vote for the new TCSP Vice Chair
- Ethics review board
### IEEE S&P Treasurer Report

**Daniel Takabi, Georgia State University**

<table>
<thead>
<tr>
<th>Description</th>
<th>$*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registrations</td>
<td>$59,500</td>
</tr>
<tr>
<td>Donations</td>
<td>$85,000</td>
</tr>
<tr>
<td>TC Support</td>
<td>$1,600</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>$146,100</strong></td>
</tr>
<tr>
<td>Virtual Conference Platform Fee</td>
<td>$57,000</td>
</tr>
<tr>
<td>Registration &amp; Meeting Planning Support</td>
<td>$35,500</td>
</tr>
<tr>
<td>Proceedings</td>
<td>$15,500</td>
</tr>
<tr>
<td>Student Travel + Awards</td>
<td>$10,600</td>
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<tr>
<td>Bank Charges</td>
<td>$4,500</td>
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<tr>
<td>Misc. Expenses</td>
<td>$1200</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$124,300</strong></td>
</tr>
<tr>
<td>Expected Surplus</td>
<td>$21,800</td>
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*Estimated values*
IEEE S&P Registration Report

Rakesh Bobba, Oregon State University
Online conference changes

- No separate registration for Symposium and Workshops
- No early bird registration
- No difference in prices between IEEE members/non-members
- Three categories: Paper Presenter / General Attendee / Student Attendee

ExecutivEvents continues to provide significant value in managing the registration process and now the online experience as well. Thank You!
Registration Overview

- Total Number of Registrations: **1231** (37.3% ↓)
- Paid Registrations: **1034** (38.5% ↓)
- General Attendee: **452**
- Student Registrations: **455**
- Paper Registrations: **176**
- Donors / Other: **197**
Registration: 1231 Total

- General Attendee: 452
- Student Attendee: 406
- Paper Registrations: 176
- Donors: 158
- Others: 39
Top Institution Registrations

Intel: 18
CISPA: 17
Georgia Tech / GTRI: 17
Northeastern: 15
UC Santa Cruz: 14
Purdue: 12
Arizona State University: 11
UC Berkeley: 11
UC Irvine: 11
Cornell: 10
EPFL: 10
ETH: 10
Microsoft: 10
VU Amsterdam: 10
IEEE S&P Shadow PC Report

Reza Shokri, National University of Singapore
Yuan Tian, University of Virginia
Shadow PC - Process and Results

- Objectives
- New Things We Experimented
- Pre-Meeting
- Online PC Meeting
- Results
Objectives

- Educating the junior reviewers
  - Top reviewers are joining the next year’s PC of Oakland
- Emphasize discussions
  - We postponed the decision-making to the end of the review process.
  - We had multiple rounds of discussions
  - The discussion leads were responsible for the quality of all the reviews (and not only writing the meta-reviews)
New Things This Year

- No accept/reject options in the first review form
  - Ask reviewers to focus on the research value of the paper instead of focus on the decision to accept/reject
  - During the discussion stage, we will ask the reviewers to update their reviews with new forms

- Emphasize the role of the discussion lead
  - The discussion leads are responsible for other people’s reviews
  - We ask the discussion lead to write a meta-review
  - We encourage reviewers to use the review ratings
Shadow PC Pre-Meeting

- Shadow PC is very selective (78 out of 189 applicants are selected)
- PC onboard meeting to explain the review and discussion process
- Selection of 187 papers from the main PC
- Bidding, reviewing (1 round), and online discussion (4 rounds) simulated a real PC
Shadow PC Meeting

- After 4 rounds of discussions, reviewers already reached consensus for most papers
- We went over 15 most difficult papers during a 3-hour online PC meeting
Shadow PC Results

- Shadow PC tended to be slightly more positive comparing to Main PC

<table>
<thead>
<tr>
<th></th>
<th>Shadow PC</th>
<th>Main PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accept (including minor revisions)</td>
<td>26</td>
<td>21</td>
</tr>
<tr>
<td>Revise (major revisions)</td>
<td>52</td>
<td>18</td>
</tr>
<tr>
<td>Reject</td>
<td>109</td>
<td>148</td>
</tr>
<tr>
<td>Acceptance Rate</td>
<td>13.9%~41.7%</td>
<td>11.2%~20.9%</td>
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</table>
Shadow PC Results

- Confusion matrix for the 187 papers
  - Shadow PC agreed with 58.8% of the papers with main PC
  - Results seem to be very different for the accepted paper

<table>
<thead>
<tr>
<th></th>
<th>Main Accept</th>
<th>Main Revise</th>
<th>Main Reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shadow Accept</td>
<td>6</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Shadow Revise</td>
<td>9</td>
<td>7</td>
<td>36</td>
</tr>
<tr>
<td>Shadow Reject</td>
<td>6</td>
<td>6</td>
<td>97</td>
</tr>
</tbody>
</table>
Symposium Updates for 2022

- S&P 2022 General Chair: Rakesh Bobba, Oregon State
- S&P 2022 Vice Chair: Daniel Takabi, Georgia State
- S&P 2022 Program Chairs: Thorsten Holz, Ruhr-University Bochum; Tom Ristenpart, Cornell Tech
Symposium Challenges for 2022

Hopefully transitioning back to an in-person meeting

Need to find ways to keep positives of online meeting
IEEE Technical Committee on Security & Privacy (TCSP)
• Currently serving TCSP officers
  – 2020-2021 Chair:
    Úlfar Erlingsson, Apple
  – 2020-2021 Vice Chair and 2022–2023 Chair-elect:
    Bryan Parno, CMU
  – TCSP Treasurer:
    Yong Guan, Iowa State University
• Additional TCSP Volunteers

Cipher Newsletter Editor
   Hilarie Orman, Purple Streak, Inc.

TCSP Webmasters / Postmasters:
   Ulf Lindqvist, SRI International

TCSP Awards Chair
   EJ Jung, University of San Francisco
TCSP Status Report

• TCSP: More than 3,008 members
  – Anyone can join:
  – http://computer.org/jointcsp

• Financial Co-Sponsorship:
  – S&P
  – CSF
  – Euro S&P (since 2016)
  – SecDev (since 2018)
  – HOST (50%, since 2018)
<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
<th>Attendees</th>
<th>Submissions</th>
<th>Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>S&amp;P/SPW 2021</td>
<td>May 24-26, 2021</td>
<td>Online</td>
<td>1129</td>
<td>952</td>
<td>115</td>
</tr>
<tr>
<td>S&amp;P/SPW 2020</td>
<td>May 18-20, 2020</td>
<td>Online</td>
<td>1967</td>
<td>841</td>
<td>104</td>
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<tr>
<td>CSF 2020</td>
<td>June 22 - 26, 2020</td>
<td>Online</td>
<td>--</td>
<td>116</td>
<td>29</td>
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<tr>
<td>SecDev 2020</td>
<td>Sept. 28 - 30, 2020</td>
<td>Online</td>
<td>90</td>
<td>--</td>
<td>30</td>
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<tr>
<td>HOST 2020</td>
<td>Dec. 7 - 11, 2020</td>
<td>Online</td>
<td>--</td>
<td>104</td>
<td>30</td>
</tr>
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</table>
• Financials

  – $36k budget approved
  – Planned to go back to the conferences
    ▪ SecDev deficit installment payment ($7.8k)
    ▪ Financial support of TC operations and Awards ($15.5k)
      – Operations: Hosting + Part-time TC IT admin ($12.5k)
      – Test-of-time and other Awards ($3k)
    ▪ Engaging Students ($12.5k)
      – Financial support of student travel/registration ($7.5k)
      – Financial support of students events (e.g., speed mentoring) ($5k)
New Policies for TCSP Conferences

• Rules for disclosing financial conflicts of interest
• Explicit anti-harassment policies
  – Procedures for receiving, recording, and responding to reports
New S&P Steering Committee

Responsibilities:
1. Setting long-term policies for the S&P
2. Guidance to S&P General/PC chairs
3. Junior PC Chair selection

Logistics
1. Term of service is 5 years with an option for 1 renewal
2. New SC members invited by the current SC
3. Members include past General and PC Chairs, people known for service to the community, and the TCSP Chair and Vice Chair
New S&P Steering Committee

Ulfar Erlingsson (TC Chair) - Lacework
Christopher Kruegel - UC Santa Barbara
Alina Oprea - Northeastern University
Bryan Parno (TC Vice Chair) - Carnegie Mellon University
Sean Peisert - UC Davis
Michael Reiter - Duke University
Hovav Shacham - University of Texas at Austin
Greg Shannon - Carnegie Mellon University & Cybersecurity Manufacturing Innovation Institute
Carmela Troncoso - EPFL
**In Progress: TCSP IT Admin**

- **Motivation**
  - Many TCSP conferences have ongoing submissions and would benefit from shared TCSP-run infrastructure (instead of volunteer servers/time)
  - Web presence needs updating, as do email and web servers
  - Membership rosters of General TCSP members need more maintenance and members could be better served with online options (e.g., iCalendar for events, etc).
  - YouTube channel and other archives need reworking & maintenance

- **Progress**
  - Multiple candidates interviewed
  - Hoping to hire soon
Awards
TCSP Recognition for Outstanding Community Service

• Alvaro Cardenas
  SP 2021 General Chair, SP 2020 Vice General Chair, SP 2019 Treasurer
  (+ SP 2014-2018 Student Travel Chair + SP 2013 Donations Chair)

• Alina Oprea
  SP 2021 Senior PC Chair and SP 2021 Junior PC Chair

• Somesh Jha
  Chair, IEEE Symposium on Security and Privacy Test of Time Awards Committee for 2009-2011
Vote for TCSP Vice Chair
Nominee: Gabriela Ciocarlie

- Chief Product Officer at Elpha Secure
- Previously Sr. Technical Manager SRI
- S&P General Chair 2020
- S&P Vice Chair & Registration Chair 2019
- S&P Workshops Chair 2018

Please vote in the Hopin poll!
Ethics Board
Long-term Ethical Support

• Create a standing committee of experts in ethical research?
• Available to authors and PCs
  – For all TCSP conferences
• Ideally coordinate with other security conferences
• Need to find a sustainable model
• Volunteers needed! Thoughts?
Thanks everybody
IEEE S&P “Test of Time Awards”

- Established IEEE S&P “Test of Time Awards”
  - Committee established rules
    Stefan Savage, Chair
    Úlfar Erlingsson
    Bryan Parno
    Mike Reiter
- Current round: 2009-2011 Committee
  Somesh Jha (Chair)
  Lorrie Cranor
  Patrick McDaniel
  Andrew Myers