



Welcome to ACSAC 2020





Kevin Butler, Conference Chair: Administrative Announcements

Daphne Yao, Program Chair: Technical Program Remarks

Roberto Perdisci, Artifacts Chair: Artifact Evaluation

Daphne Yao: Distinguished Paper Awards

Mary Ellen Zurko and SWSIS Scholarship Presentations

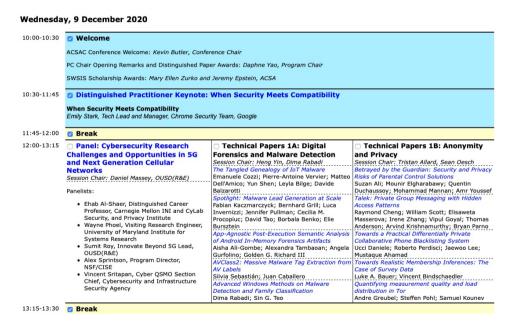
Jeremy Epstein, ACSA:

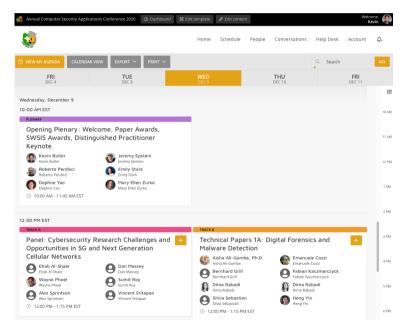
Emily Stark, Distinguished Practitioner Keynote:

"When Security Meets Compatibility"



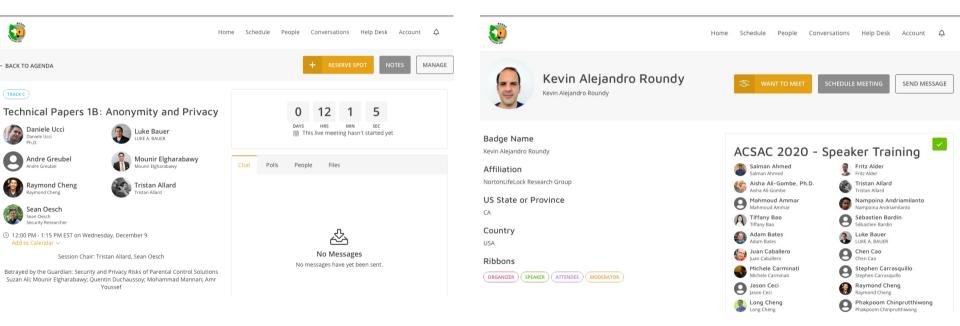
Navigating the Conference







Connecting with Others

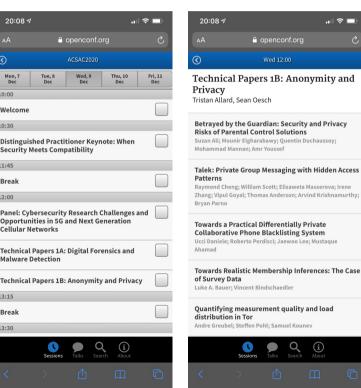


Chat during Sessions

Directly contact attendees



Mobile Program





NITRD Panel: Homomorphic Encryption: Clever Idea, But Can We Make It Practical?

Tomas Vagoun, NITRD/NCO

Panelists:

- Heidi Sofia, Program Director, National Human Genome Research Institute. NIH
- Josh Baron, Program Manager, Information Innovation Office, DARPA
- Kurt Rohloff, Co-founder and CTO, Duality Technologies
- Moderator: Tomas Vagoun, Cybersecurity R&D Coordinator. NITRD/NCO

Abstract:

Fully homomorphic encryption promises computation directly with encrypted data, which would solve one of the major security challenges—we must first decrypt protected data in order to use the data. Over the years, the Federal Government has been investing long-term research funding to bring HE to fruition. How far have we gotten? The panelists will discuss advances in this field, what is possible today, and what research would be useful to further advance HE to improve generality and effectiveness.

https://www.openconf.org/acsac2020/mobile



Program At-a-Glance (Wednesday)

- Welcome
- Distinguished Practitioner Keynote
- Break (all breaks are 15 minutes)
- Multi-track Sessions
- Break
- Multi-track Sessions
- Break
- Poster and Work in Progress Talks 1



Program At-a-Glance (Thursday)

- Tribute to Marshall Abrams
- Test of Time Awards
- Break
- Multi-track Sessions
- Sponsored Talk/Break
- Multi-track Sessions
- Break
- Poster and Work in Progress Talks 2



Program At-a-Glance (Friday)

- Multi-track Sessions
- Sponsored Talk/Break
- Multi-track Sessions
- Break
- Multi-Track Sessions
- Closing Remarks
- BoF



Panels & National Interest Track

Wednesday

- Panel: Cybersecurity Research Challenges and Opportunities in 5G and Next Generation Cellular Networks
- NITRD Panel: Homomorphic Encryption: Clever, Idea But Can We Make It Practical?

Thursday

NITRD Panel: CMMC: Raising the Bar on Cybersecurity Maturity

Friday

Panel: Diversity & Inclusion in the Cybersecurity Research Community



Case Studies

Thursday

Cybersecurity Test and Evaluation Lessons Learned

Friday

- Anchoring Trust in a Totally Open Platform
- Incident Response Planning for Election Cybersecurity: Designing a Workshop for County Clerks
- Summarizing Intrusion Alerts to Attack Models for Higher-Ed SOC



Poster and Work in Progress Talks

Wednesday and Thursday (3:00-4:00 PM Eastern Time)

- 10 talks in each session, each 1 hour
- Short talks with lots of Q&A opportunities



Test of Time Paper Awards, 2nd edition

- Recognize and honor selected papers from the first 20 years (1985-2004) that have had a significant impact
 - Led to a major change in the field
 - Are used commercially
 - Have been well cited
 - Are well known as strong papers
- Special panel of distinguished speakers



https://www.wabisabilearning.com/blog/13-educational-tools-test-time

Thursday, 10:30 AM Eastern



Tribute to Marshall Abrams

Recollections and remembrance of the founder of ACSAC and his indelible influence



Thursday, 10:00 AM Eastern



Thank You to our Sponsors!!







Sponsored Talks

- Memory corruption attacks in the Spectre era (Thurs 1:15 PM Eastern)
- Unleashing Cyber Reasoning: DARPA Transparent Computing Threat Hunting Retrospective (Fri 11:15 AM Eastern)



Conference Proceedings

Proceedings

36th Annual Computer Security Applications Conference



ACSAC 2020

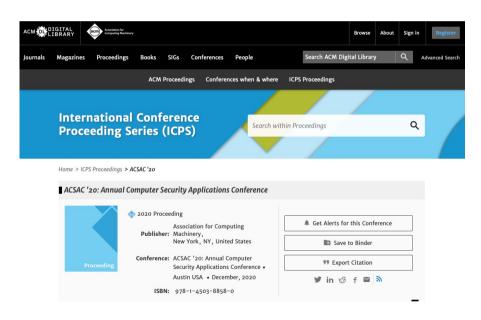
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Conference Proceedings: ACM Digital Library (thru Friday)



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https://www.acsac.org/2020/
proceedings
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https://dl.acm.org/citation.cfm ?id=34271228



Via ACSAC List of Accepted Papers (Indefinitely)

	ACSAC 2020					Archive FAQs Mailing List		
	December 7-11, 2020 •	Online				rch on duckduckgo	Q	
Submissions	∨ Workshops ∨	Committees ~	Program ~	Registration				

Accepted Papers

The following technical papers have been accepted for this year's program.

The Tangled Genealogy of IoT Malware

Emanuele Cozzi (Eurecom), Pierre-Antoine Vervier, Matteo Dell'Amico, Yun Shen, Leyla Bilge (NortonLifeLock Research Group), Davide Balzarotti (Eurecom)

Spotlight: Malware Lead Generation at Scale

Fabian Kaczmarczyck, Bernhard Grill, Luca Invernizzi, Jennifer Pullman, Cecilia M. Procopiuc, David Tao, Borbala Benko, Elie Bursztein (Google)

App-Agnostic Post-Execution Semantic Analysis of Android In-Memory Forensics Artifacts

Aisha Ali-Gombe, Alexandra Tambaoan, Angela Gurfolino (Towson University), Golden Richard (Louisiana State University)

AVClass2: Massive Malware Tag Extraction from AV Labels

Silvia Sebastián, Juan Caballero (IMDEA Software Institute)

Advanced Windows Methods on Malware Detection and Classification

Dima Rabadi, Sin Teo (Institute for Infocomm Research (I2R), A*STAR, Singapore)

SAIBERSOC: Synthetic Attack Injection to Benchmark and Evaluate the Performance of Security Operation Centers

 $Martin\,Rosso,\,Michele\,Campobasso,\,Ganduulga\,Gankhuyag,\,Luca\,Allodi\,(Eindhoven\,University\,of\,Technology)$

https://www.acsac.org/2020/ program/papers/



Organizing Committee

- Kevin Butler, Univeristy of Florida (Conference Chair)
- Danfeng (Daphne) Yao, Virginia Tech (Program Chair)
- Heng Yin, UC Riverside (Program Chair)
- Roberto Perdisci, University of Georgia (Artifacts Evaluation Chair)
- Randy Smith, Boeing (Case Studies Co-Chair)
- Saurabh Shintre, Norton Lifelock Research Group (Case Studies Co-Chair)
- Tomas Vagoun, NITRD (National Interest Track Chair)
- David Balenson, SRI International (Panels Chair & ACSA Government Liaison & Treasurer & Conf. Chair Emeritus)
- Kevin Roundy, Norton Lifelock Research Group (Posters & Work-in-Progress Co-Chair)
- Brandon Saltaformaggio, Georgia Tech (Posters & Workin-Progress Co-Chair)
- Harvey Rubinovitz, MITRE (Workshops Chair)

- Daniel P. Faigin, Aerospace (Training Workshops Chair)
- Dan Thomsen, SIFT (Knowledge Coordinator)
- Charles Payne, Adventium (Local/Virtual Arrangements Chair)
- Giorgio Giacinto, Univ. of Cagliari (Proceedings Coordinator)
- Peter Mayer, Karlsruhe Institute of Technology (Publicity Co-Coordinator)
- Adam Bates, UIUC (Publicity Co-Coordinator)
- Karen Davis (Registration Coordinator)
- Thomas Moyer, UNC Charlotte (Student Conferenceships)
- Sarah Diesburg, UNI (Student Conferenceships)
- Robert H'obbes' Zakon, Zakon Group LLC (Web Advisor)
- Marshall Abrams (ACSAC Curmudgeon and Treasurer)
- Jeremy Epstein, NSF (ACSA President)
- Mike Moshell, Carole Mann, Sharri Hanacek, Registration Systems Lab (Registration)



Steering Committee

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- David Balenson, SRI International
- Davide Balzarotti, Eurecom
- Kevin Butler, Univ. of Florida
- Juan Caballero, IMDEA Software Institute
- Jeremy Epstein, National Science Foundation
- Daniel P. Faigin, The Aerospace Corporation
- Carrie Gates, Bank of America
- Guofei Gu, Texas A&M University

- Ann Marmor-Squires, The Sq Group
- Charles Payne, Adventium Labs
- Wil Robertson, Northeastern Univ.
- Harvey Rubinovitz, MITRE
- Steve Schwab, USC-ISI
- Cristina Serban, AT&T Security Research Center
- Dan Thomsen, SIFT
- Danfeng (Daphne) Yao, Virginia Tech
- Robert H'obbes' Zakon, Zakon Group LLC



Special Thanks: Virtual Conference Committee

- Marshall Abrams
- Charles Payne
- David Balenson
- Robert 7akon

Conference Direct Team: Marcy Hilecher, Maile Kim, Michelle Mears



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– https://www.linkedin.com/in/acsac-chair/







Keynote



Distinguished Practitioner Keynote

When Security Meets Compatibility

Emily Stark,

Tech Lead and Manager, Chrome Security Team, Google

