



# ACSAC 2022

## Cybersecurity Artifacts Competition and Impact Awards



# Cybersecurity Artifacts Competition and Impact Award

- New initiative at ACSAC 2022!



- Competition Objectives:

- Further promote reproducibility of cybersecurity research results
- Acknowledge efforts of authors who contribute to real-world deployment/use of novel and reliable security solutions
- Award artifacts that have had a **significant impact on cybersecurity research and applications**
- Submissions open to cybersecurity artifacts previously published in peer-reviewed venues (conferences, journals), both in academia and industry (not only ACSAC)



# Cybersecurity Artifacts Competition and Impact Award

- Example of “Impact”
  - The artifact has been **reused and cited in subsequent research publications** presented in academic or industry venues.
  - The artifact has been **released as open-source software and has received demonstrable appreciation** by the security community (e.g., in the form of "stars," "forks," or other types of citations).
  - The artifact has been successfully **transitioned to a commercial technology**.
  - The artifact consists of an **online service that is open to the public or to researchers** and demonstrates a significant number of users benefiting from it.
  - The artifact has become a **de facto benchmark for one or more use cases**.
- Received 7 submissions and selected 5 high-quality finalists



# Artifacts Competition Finalists

- 5 Finalists - Impact Award will be announced after the presentations
  - **Tripwire: Integrity Scanning as Intrusion Detection**
  - **CUMUL & Co: High-Impact Artifacts for Website Fingerprinting Research**
  - **libdft: Dynamic Data Flow Tracking for the Masses**
  - **Tranco: A Research-Oriented Top Sites Ranking Hardened Against Manipulation**
  - **YourThings: A Comprehensive Annotated Dataset of Network Traffic from Deployed Home-based IoT Devices**
- Short papers accompanying the artifacts competition submissions are published on the ACSAC website



# Artifacts Competition Committee

- Co-Chairs

- Guofei Gu - Texas A&M University
- Gabriela Ciocarlie - UT San Antonio
- Roberto Perdisci - Univ. of Georgia

- Committee Members

- Baris Coskun - Amazon AWS
- Gianluca Stringhini - Boston University
- Leigh Metcalf - US Cert
- Manuel Egele - Boston University
- Marco Balduzzi - Trend Micro
- Martina Lindorfer - TU Wien
- Michael Pozmantier - NSF
- Mihai Christodorescu - Google
- Nick Nikiforakis - Stony Brook University
- Phillip Porras - SRI

**Thank You!**



# Final Presentations...



# Impact Awards

- Awards Competition PC Assigned 2 Awards
  - **Impactful System Award**
  - **Impactful Dataset Award**

# Impactful System Award goes to...



*Tripwire: Integrity Scanning as Intrusion Detection*

**Eugene Spafford**

Purdue University





# Impactful Dataset Award goes to...

*Tranco: A Research-Oriented Top Sites Ranking  
Hardened Against Manipulation*

**Victor Le Pochat<sup>(1)</sup>, Tom Van Goethem<sup>(1)</sup>,  
Samaneh Tajalizadehkhoob<sup>(2)</sup>, Maciej  
Korczyński<sup>(3)</sup>, Wouter Joosen<sup>(1)</sup>**

<sup>(1)</sup>KU Leuven, <sup>(2)</sup>ICANN, <sup>(3)</sup>Univ. Grenoble Alpes



Thanks to all  
competition participants!