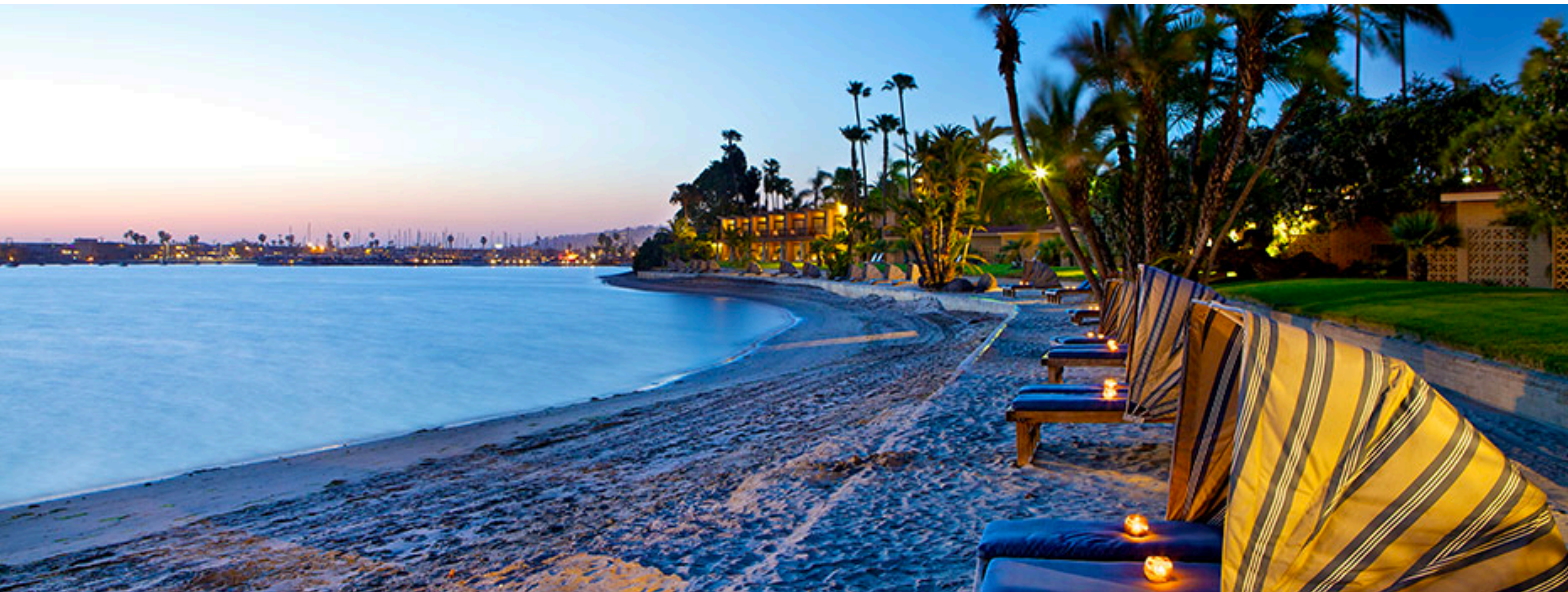




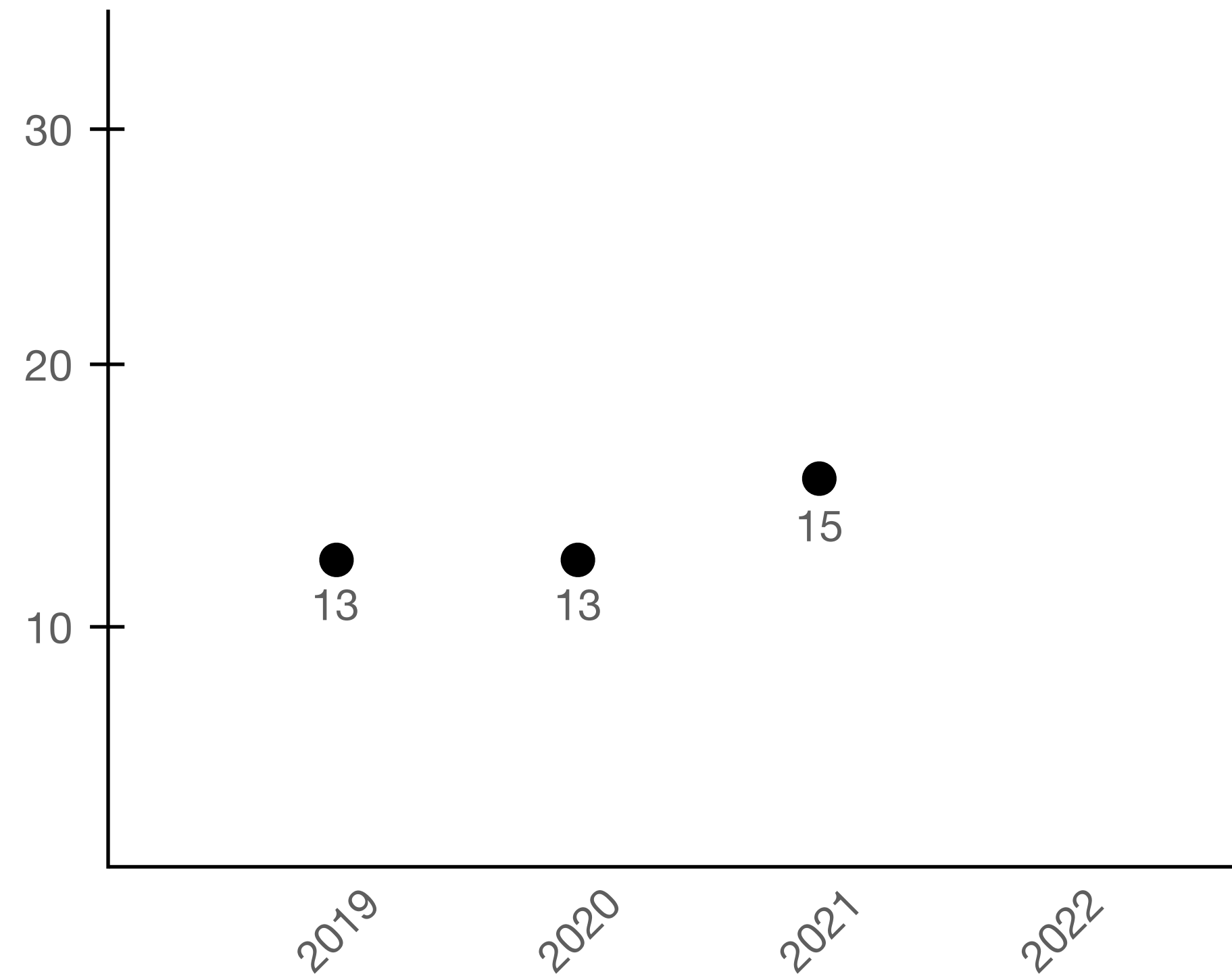
NDSS
SYMPOSIUM/2021

Binary Analysis Research Workshop



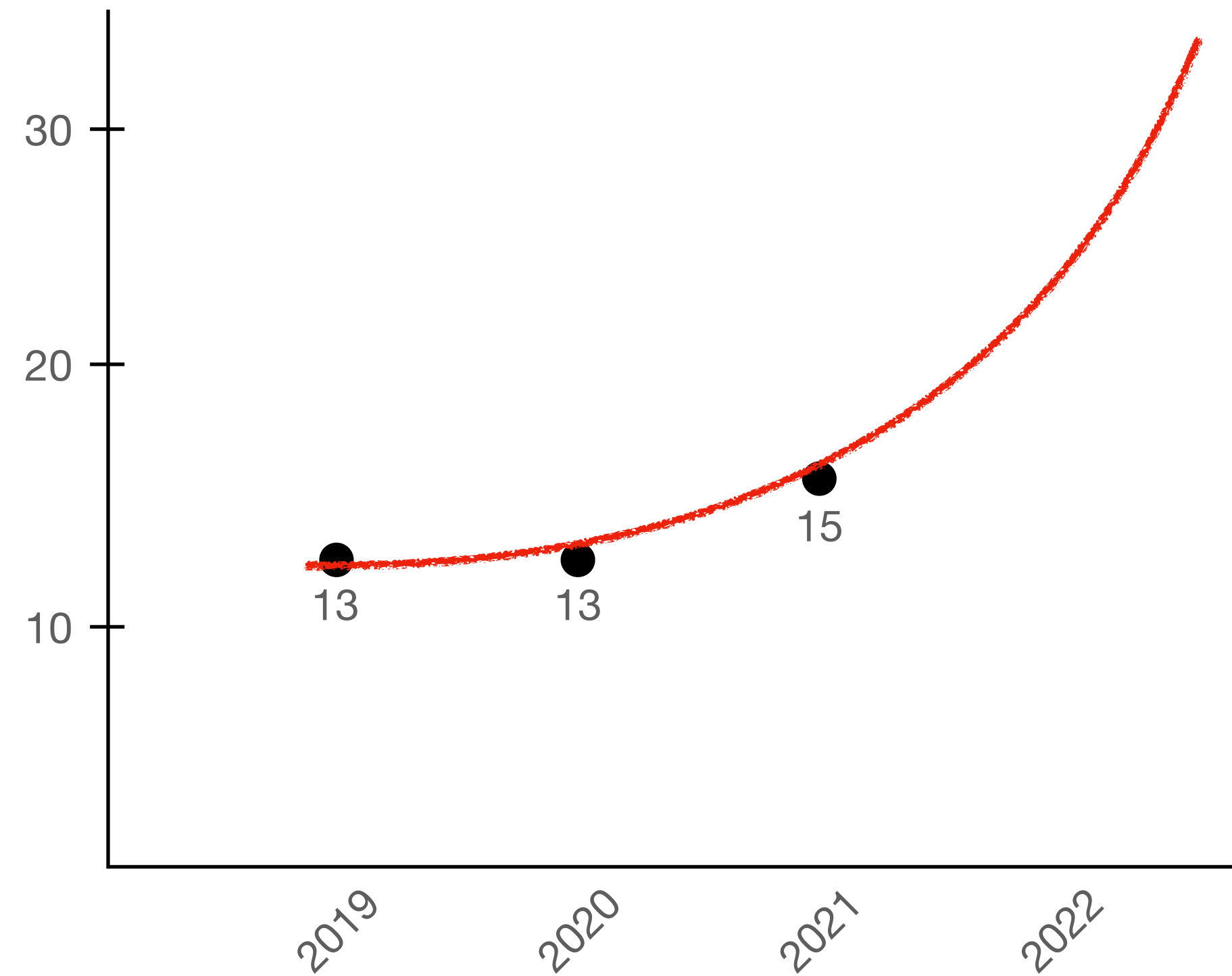
Vital Stats for BAR 2021

- **15 submissions**
- **9 papers accepted**
- Three major topic areas:
 - Core binary analysis
 - Fuzzing
 - Embedded analysis



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Paper & Artifact Links

Paper	Artifact
SN4KE: Practical Mutation Testing at Binary Level	Link
Short Paper: Declarative Demand-Driven Reverse Engineering	Link
PyPANDA: Taming the PANDAmorium of Whole System Dynamic Analysis	Link
Effects of Precise and Imprecise Value-Set Analysis (VSA) Information on Manual Code Analysis	Link (Coming soon!)
JMPscare: Introspection for Binary-Only Fuzzing	Link
icLibFuzzer: Isolated-context libFuzzer for Improving Fuzzer Comparability	Link
Is Your Firmware Real or Re-Hosted? A case study in re-hosting VxWorks control system firmware	-
Dinosaur Resurrection: PowerPC Binary Patching for Base Station Analysis	Link
Polypyus – The Firmware Historian	Link

<https://bar2021.moyix.net/program.html>

Workshop Agenda

<https://www.ndss-symposium.org/ndss-program/bar-2021/>

- 9:30 am - 10:40 am Session 1: Binary analysis
- 10:40 am - 11:00 am Break
- 11:00 am - 11:50 am Session 2: Binary Fuzzing
- 11:50 am - 1:00 pm Break
- 1:00 pm - 2:15 pm Session 3: Embedded Systems

Hallway Track (Gather)

- Virtual recreation of the Catamaran
- “Walk” around, look at the posters, bump into people and start a conversation



Slack



- NDSS Slack:
ndss-group.slack.com
- BAR workshop channel: #bar-binary-analysis-research-workshop
- Feel free to use either this or the Zoom chat

Workshop Format

- Presentations are **prerecorded**
- You are **encouraged** to use the Zoom chat or Slack to discuss and ask questions during the video
- After each talk we will have 2-3 minutes for questions to the authors
 - Use the “raise hand” button and I’ll call on you

BAR 2020 Program Committee

24 members

- Yan Shoshitaishvili, Arizona State University
- Xinyu Xing, Penn State University
- Andrea Lanzi, University of Milan
- Lorenzo Cavallaro, King's College London
- Sophia d'Antoine, Margin Research
- Tim Bryant, Vector 35
- Taegy Kim, Purdue University
- Sébastien Bardin, CEA LIST
- Zhiqiang Lin, Ohio State University
- Antonio Bianchi, Purdue University
- Maverick Woo, Carnegie Mellon University
- Daniele Cono D'Elia, Sapienza University of Rome
- Sarah Zennou, Airbus
- Konrad Rieck, TU Braunschweig
- Ruoyu "Fish" Wang, Arizona State University
- Edward J. Schwartz, Carnegie Mellon University
- Martina Lindorfer, TU Wien
- Mariano Graziano, Cisco Talos
- Christophe Hauser, Information Sciences institute, USC
- Juan Caballero, IMDEA Software Institute
- Aurélien Francillon, EURECOM
- Grant Hernandez, Qualcomm
- Alexei Bulazel, Independent Security Researcher

Additional Thanks

- Brad Reaves and Yasemin Acar, NDSS Workshop Chairs
- Karen O'Donoghue, ISOC
- BAR Steering Committee:
 - Fish Wang
 - Yan Shoshitaishvili
 - Antonio Bianchi