

Workshop Encouraging Building Better Blockchain Security (WEB3SEC)

The inaugural WEB3SEC workshop will be held Monday, December 5, 2022, in conjunction with the Annual Computer Security Applications Conference (ACSAC). ACSAC will be held at the AT&T Conference Center in Austin, Texas.

For further details about WEB3SEC, please visit the workshop website at www.web3sec.ws or at <https://www.acsac.org/2022/workshops/WEB3SEC/>. For questions, please contact questions@web3sec.ws

Call for Papers

WEB3SEC brings together blockchain and security researchers, practitioners, industry experts to discuss novel improvements to the security of blockchain systems. Topics of discussion include security techniques and approaches that can serve as building blocks for better distributed ledgers.

In structure, WEB3SEC follows the traditional open format primarily based on submitted and reviewed work; accepted publications will appear in the WEB3SEC proceedings. Areas of interest include, but are not limited to, the following:

- Smart contract exploitation & verification
- Zero-knowledge proofs & rollups
- Privacy & anonymity in blockchain
- Attacks on proof of stake
 - Nothing at stake & grinding
 - Long-range attacks
- Network communication security
 - Gossip protocols
 - Peer-to-peer communication
 - Impacts on consensus
- Access control in blockchain systems
- Identity and authentication
- Byzantine-tolerant algorithms
- Blockchain-facilitated cybercrime
- Cryptographic primitives
- Distributed virtual machines
- Web3 exploits
- Formal verification of distributed protocols
- Distributed decision making & voting schemes
- Tool-assisted security analysis
 - Simulation & modeling
 - Empirical datasets
- Attack post-mortems

Submission Instructions

Submissions should be at most 6 pages excluding references, and use the double-column ACM proceedings format (acmart) template [here](#), with the [sigconf, anonymous] options.

Please submit your manuscript via EasyChair at the [submission link](#).

Reviewing will be double-blind. Author names and affiliations should not appear in the paper, and authors should make a reasonable effort not to reveal their identities or institutional affiliation.

Authors and Program Committee members are required to indicate any conflict of interest. Advisors and those that they are advising, as well as authors and PC members with an institutional relationship are considered to share a conflict of interest. Professional collaborations within the past 2 years or close personal relationships also constitute a conflict of interest.

You may contact the PC chairs at tpc@web3sec.ws

Publication

The accepted workshop papers and slides will be published on the ACSAC website.

Important Dates

Submission Deadline:

Sep 30, 2022

Notification Deadline:

Nov 14, 2022

Camera-Ready Deadline:

Nov 18, 2022

Workshop Date (co-located with ACSAC 2022):

Dec 5, 2022

Organizing Committee

General Chairs : gc@web3sec.ws

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Program Chairs : tpc@web3sec.ws

Yupeng Zhang, Texas A&M University

Hans Behrens, Arizona State University

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Phillipp Kant, Mina Foundation

Michał Król, City University London

Francis Mendoza, Ripple

Carlos Rubio-Medrano, TAMU Corpus Christi

Alberto Sonnino, Mysten Labs

Ziming Zhao, SUNY Buffalo

Workshop Registration

If you are interested in attending, please check off the appropriate box on the conference registration form and add in the Workshop Encouraging Building Better Blockchain Security (WEB3SEC) Workshop fee.

The ACSAC registration page can be found at: <https://www.acsac.org/2022/registration/>

For accepted papers, at least one author must attend.