Date:

Thursday, August 31 (after SBC '23)

Duration:

09:00 - 17:00

Venue:

McCaw Hall (the main auditorium), Arrillaga Alumni Center (326 Galvez St), Stanford University.Map

Parking:

Galvez Lot (L-96), you must preregister your vehicle here

Registration:

None required, the workshop is free to attend

Livestream:

Here, backup stream on YouTube here

Previous year's workshop:

Here

Maximal extractable value (MEV) is a measure devised to study consensus security by modeling the profit a miner (or validator, sequencer, or other privileged protocol actor) can make through their ability to arbitrarily include, exclude, or re-order transactions from the blocks they produce.

MEV is a complex and multidisciplinary research area, bringing together ideas from computer science, cryptography, economics, game theory, programing languages, and more. MEV-SBC aims to highlight important MEV research done in the past year and talks that will illuminate a new round of research problems the community should prioritize. The workshop is a satellite event of The Science of Blockchain Conference (SBC'23).

Agenda

All talk slots are 25 minutes to allow for a 20 minute talk + 5 minutes of questions

Session 1: Ordering Policies for MEV Mitigation

9:00 "The Welfare Gap in Fair Ordering"

Theo Diamandis (Recording, Slides)

9:25 "Breaking the Chains of Rationality: Understanding the Limitations to and Obtaining Order Policy Enforcement"

Kartik Nayak (Recording, Slides)

9:50 "PROF: Protected Order Flow for Fair Transaction-Ordering in a Profit-Seeking World"

Kushal Babel (Recording, Slides)

10:15 Coffee break

Session 2: Robust Decentralization and MEV

10:45 "Decentralized Crypto Needs Geographic Decentralijuzation"

Phil Daian (Recording, Slides)

11:10 "A Dynamic Auction Model for PBS"

Julian Ma (Recording, Slides)

11:35 "Censorship Resistance and On-Chain Auctions"

Mallesh Pai (Recording, Slides)

12:00-13:00 Lunch

Session 3: MEV Across the Stack

13:00 “MEV and Its Credibility Problem”

Quintus Kilbourn (Recording, Slides)

13:25 “Cost of MEV: Quantifying Economic (un)Fairness in the Decentralized World”

Tarun Chitra (Recording, Slides)

13:50 “MEV on Ethereum L2s”

Davide Crapis (Recording, Slides)

14:15 "Transaction Ordering: The View from L2 (and L3)”

Ed Felten (Recording, Slides)

14:40 Coffee Break

Session 4: Research Problems for the Next Generation of MEV Solutions

15:10 “WTF is a TCB Recovery?”

Andrew Miller (Recording, Slides)

15:35 “PEPC Open Problems”

Barnabé Monnot (Recording, Slides)

16:10-17:00 Panel “Nerdsniping the Academic Mempool”

moderated by Alejo Salles with panelists Andrew Miller, Mallesh Pai, Neha Narula (Recording)

This agenda was created with input from Flashbots Research, the Ethereum Foundation, and broader research community. Livestream, recording, and slide links will be added once available