# 2025 IEEE International Symposium on High Performance Computer Architecture (HPCA 2025)

## Las Vegas, Nevada, USA
## 1-5 March 2025

## Pages 1-593

IEEE Catalog Number: CFP25013-POD
ISBN: 979-8-3315-0648-3

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

| | |
|---|---|
| IEEE Catalog Number: | CFP25013-POD |
| ISBN (Print-On-Demand): | 979-8-3315-0648-3 |
| ISBN (Online): | 979-8-3315-0647-6 |
| ISSN: | 1530-0897 |

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings .com

# 2025 IEEE International Symposium on High Performance Computer Architecture (HPCA)

# HPCA 2025

## Table of Contents



## Session 1A: Reliable Bets

## Session 1B: Speculating in Vegas - 1



## Session 1C: Next Big Bets - 1



## Session 2A: Quantum Slots-1

## Session 2B: Speculating in Vegas - 2



## Session 2C: High Stakes Vision - 1

## Session 3A: Quantum Slots-2



## Session 3B: Best of CAL



## Session 3C: High Stakes Vision - 2

## Session 3D: Securing your Chips

## Session 4A: The Winning System - 1



## Session 4B: Doubling-down with PIM - 1

## Session 4C: Stacking the Layers



## Session 5A: Stashing your Winnings



## Session 5B: Doubling-down with PIM - 2

## Session 5C: Stacking the Layers (Quantization)

## Session 6A: Cacheno Royale



## Session 6B: Next Big Bets - 2

## Session 6C: Stacking the Layers (Sparsity) - 1



## Session 7A: Hammering the Odds - 1

## Session 7B: Traversing Winning Paths - 1

## Session 7C: Stacking the Layers (Sparsity) - 2



## Session 8A: Hammering the Odds - 2



## Session 8B: Traversing Winning Paths - 2

## Session 8C: Viva Las Learning Models - 1



## Session 9A: The Poker Face of FHE

## Session 9B: Industry Session

## Session 9C: Finding the Best Table

## Session 10A: The Winning System - 2



## Session 10B: All in on GPUs - 1

## Session 10C: Viva Las Learning Models - 2

## Session 10D: Colluding to Even the Odds



## Session 11A: The Winning System - 3

## Session 11B: All in on GPUs - 2



## Session 11C: Viva Las Learning Models (with PIM)