



## ADA TECHCON 2022 Publications

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### **A Novel Vector ISA for Accelerating Homomorphic Encryption**

Negar Neda (NYU-Poly), Brandon J. Reagen (NYU)

### **Algorithm And Hardware Design for RRAM-Based Binarized Spiking Neural Networks**

Xinxin Wang (Univ. of Michigan), Xiaofeng Hu (University of Michigan), Jason Eshraghian (Univ. of Michigan), Wei Lu (Univ. of Michigan)

### **Characterization of End-to-End Private Inference at Scale**

Karthik Garimella (NYU), Brandon J. Reagen (NYU), Zahra Ghodsi (UC/San Diego), Nandan Kumar Jha (NYU-Poly), Siddharth Garg (NYU)

### **CrypTention: Pitfalls of Attention-based Networks in Private Deep Learning**

Nandan Kumar Jha (NYU-Poly), Brandon Reagen (NYU)

### **Efficient Multi-tenancy for In-network Acceleration**

Rafael Oliveira (Georgia Tech), Ada Gavrilovska (Georgia Tech)

### **Fine-grained Memory Management for Data-intensive Workloads at the Edge**

Misun Park (Georgia Tech), Ketan Bhardwaj (Georgia Tech), Ada Gavrilovska (Georgia Tech)

### **HardKAT: Algebraic Semantics for Hardware Design and Verification**

Yonathan Fisseha (Univ. of Michigan), Shibo Chen (Univ. of Michigan), Todd Austin (Univ. of Michigan), Jean-Baptiste Jeannin (Univ. of Michigan)

### **Integrity Mechanisms for Privacy-Enhanced Computation Frameworks**

Lauren Biernacki (Univ. of Michigan), Todd Austin (Univ. of Michigan)

### **Lightweight Software Stack for MEC**

Ke-Jou Hsu (Georgia Tech), Ada Gavrilovska (Georgia Tech), Ketan Bhardwaj (Georgia Tech)

### **Theoretically and Practically Efficient Parallel Nucleus Decomposition**

Jessica Shi (MIT), Laxman Dhulipala (UM/College Park), Julian Shun (MIT)

### **These Aren't the Caches You're Looking For: Stochastic Channels on Randomized Caches**

Tarunesh Verma (Univ. of Michigan), Achilleas Anastasopoulos (University of Michigan), Todd Austin (Univ. of Michigan)

### **User-driven collaborative edge-cloud system for recommendation models**

Vidushi Goyal (Univ. of Michigan), Reetuparna Das (Univ. of Michigan), Valeria Bertacco (Univ. of Michigan)