

All times are Eastern Daylight Time (EDT).

Friday, September 27				
	Virtual	Virtual	Virtual	Virtual
10:00-12:00	Education class 1. Design Space Exploration for Deep Learning at the Edge. Authors: A.D. Pimentel.	Education class 2. Enabling Energy-efficient AI Computing: Leveraging Application-specific Approximations. Authors: S. Ullah.	Education class 3. Efficient Neural Networks: from SW optimization to specialized HW accelerators. Authors: M. Traiola.	Education Class 4. Primer on Data on Quantum Machine Learning Authors: A. Shrivastava.
16:00-18:00	Education class 5. AI-Driven Indoor Navigation with Mobile Embedded Systems. Authors: S. Pasricha.	Education class 6. MLSysBook.AI: Principles and Practices of Engineering Artificially Intelligent Systems Authors: V.J. Reddi.	Education Class 7. Spiking Neural Networks and MatMul-Free LLMs Authors: J. Eshraghian.	

Sunday, September 29					
	Hannover I	Hannover II	Hannover III	Governor I	Governor II
09:00 - 10:30	Tutorial 1. Disruptive Memory Technologies: A Tutorial and Unified Simulation Framework. Authors: J.-J. Chen (TU Dortmund), J. Henkel (KIT), L. Siddhu (KIT), M. Tahoori (KIT), J. Teich (FAU Erlangen-Nurnberg), J. Castrillon (TU Dresden).	Tutorial 2. Low Code, High Performance Embedded AI with MATLAB & Arm IP Explorer. Authors: B. Zhuang (MathWorks), A. Rajhans (MathWorks), E. Sondhi (Arm).	Tutorial 3. AMD's Ryzen AI Neural Processing Unit Hands-on Tutorial. Author: A. Schmidt (AMD).	Tutorial 4. Privacy Preserving Primitive for Health Data. Authors: F. Regazzoni (University of Amsterdam), P. Palmieri (University College Cork), A.P. Fournaris (ISI).	Tutorial 5. ARES: AI for Science on Resource-Constrained Embedded Systems. Authors: W. Jiang (George Mason University).
10:30 - 11:00	Coffee Break				
10:10 - 12:30	Tutorial 1. Disruptive Memory Technologies: A Tutorial and Unified Simulation Framework. Authors: J.-J. Chen (TU Dortmund), J. Henkel (KIT), L. Siddhu (KIT).	Tutorial 2. Low Code, High Performance Embedded AI with MATLAB & Arm IP Explorer. Authors: B. Zhuang (MathWorks), A. Rajhans (MathWorks), E. Sondhi (Arm).	Tutorial 3. AMD's Ryzen AI Neural Processing Unit Hands-on Tutorial. Author: A. Schmidt (AMD).	Tutorial 4. Privacy Preserving Primitive for Health Data. Authors: F. Regazzoni (University of Amsterdam), P. Palmieri (University College Cork), A.P. Fournaris (ISI).	Tutorial 5. ARES: AI for Science on Resource-Constrained Embedded Systems. Authors: W. Jiang (George Mason University).
12:30 - 13:30	Lunch Break				

13:30 - 15:00	Tutorial 6. Large-Scale Spiking Neuromorphic Architectural Exploration using SANA-FE. Authors: J. Boyle, A. Gerstlauer (University of Texas at Austin).	Tutorial 7. Deploying Acoustic-Based Predictive AI for Machine Health using Model-Based Design Tools. Authors: B. Zhuang (MathWorks), A. Rajhans (MathWorks), T. Zhu (MathWorks).	Tutorial 8. Understand Your FPGA Designs Better: From Rapid Simulation to On-board Profiling. Authors: C. Hao (Georgia Institute of Technology), R. Sarkar (Georgia Institute of Technology), J. Kim (Georgia Institute of Technology).	Tutorial 9. Generative AI for Next-generation EDA Tool-flows. Authors: R. Karri (NYU), J.V. Rajendran (UT Austin), S. Garg (NYU).	Tutorial 10. Efficient Large Language Model Tuning on the Edge. Authors: Y. Chen (Duke University), T. Chen (University of Texas at Austin), J. Sun (Duke University).
15:00 - 15:30	Coffee Break				
15:30 - 17:00	Tutorial 6. Large-Scale Spiking Neuromorphic Architectural Exploration using SANA-FE. Authors: J. Boyle, A. Gerstlauer (University of Texas at Austin).	Tutorial 7. Deploying Acoustic-Based Predictive AI for Machine Health using Model-Based Design Tools. Authors: B. Zhuang (MathWorks), A. Rajhans (MathWorks), T. Zhu (MathWorks).	Tutorial 8. Understand Your FPGA Designs Better: From Rapid Simulation to On-board Profiling. Authors: C. Hao (Georgia Institute of Technology), R. Sarkar (Georgia Institute of Technology), J. Kim (Georgia Institute of Technology).	Tutorial 9. Generative AI for Next-generation EDA Tool-flows. Authors: R. Karri (NYU), J.V. Rajendran (UT Austin), S. Garg (NYU).	Tutorial 10. Efficient Large Language Model Tuning on the Edge. Authors: Y. Chen (Duke University), T. Chen (University of Texas at Austin), J. Sun (Duke University).
18:00 - 22:00	Reception				
Monday, September 30					
Oak Forest A+B					
08:30 - 09:00	Opening session				
09:00 - 10:00	KEYNOTE 1: Making tools to support the development of safety-critical embedded software Speaker: Jean-Louis Colaço (ANSYS) – Session chair: Alain Girault				
10:00 - 10:30	Coffee Break				
	Oak Forest B	Hannover I	Oak Forest A	Hannover II	Hannover III
10:30 - 12:00	CASES 1: Edge AI * Session Chair: Akash Kumar	CODES+ISSS 1: Non-Volatile Memory and Storage * Session Chairs: Sudeep Pasricha	EMSOFT 1: Machine Learning under Resource Constraints Session Chair: Jian-Jia Chen	Special Session 1: Security-by-Design: Leveraging Security in Design of Hardware and Software for Embedded Hardware Systems Organizers: S.M. Pudukotai Dinakarrao	

10:30 - 10:50	NDPGNN: A Near-data Processing Architecture for GNN Training and Inference Acceleration. * Best paper candidate. Authors: H. Wang, S. Zhang, X. Fan, Z. Yang, M. Zhang.	Reliable, Versatile, and Efficient Data Matching in SSD's NAND Flash Memory Chip for Data Indexing Acceleration. * Best paper candidate. Authors: Y. Chen, Y. Chang, T.-W. Kuo.	MII: A Multifaceted Framework for Intermittence-aware Inference and Scheduling. Authors: Z. Zhang, C. Liu, H. Kim.	Towards a Robust Metrology for Heterogeneous System-on-Chip Security. Author: G.P. Venkataramani.	
10:50 - 11:10	EASTER: Learning to Split Transformers at the Edge Robustly. Authors: X. Guo, Q. Jiang, Y. Shen, A. Pimentel, T. Stefanov.	AttentionRC: A Novel Approach to Improve Locality Sensitive Hashing Attention on Dual-addressing Memory. Authors: C.-L. Chu, Y.-C. Chen, W. Cheng, I.-C. Lin, Y.-H. Chang.	Batch-MOT: Batch-Enabled Real-Time Scheduling for Multi-Object Tracking Tasks. Authors: D. Kang, S. Lee, C. Hong, J. Lee, H. Baek.	Secure Embedded Systems' Design by Leveraging Hardware-Software Limitation and Interactions. Author: S.M. Pudukotai Dinakarrao.	
11:10 - 11:30	Deploy: Enabling Energy-Efficient Deployment of Small Language Models On Heterogeneous Microcontrollers. Authors: M. Scherer, L. Macan, V. Jung, P. Wiese, A. Burrello, F. Conti, L. Benini.	FIRM-tree: a Multidimensional Index Structure for Reprogrammable Flash Memory. Authors: S.-T. Wu, P.-J. Chen, P.-C. Huang, W.-K. Shih, Y.-H. Chang.	Arch2End: Two-stage Unified System-level Modeling for Heterogeneous Intelligent Devices. Authors: W. Liu, Z. Zhu, B. Li, Y. Xiong, Z. Lian, J. Geng, X. Zhou.	Snowflake IoT: Ultra-Low-Cost Diversity Defenses. Author: T. Austin.	
11:30 - 11:50	Efficient Batched Inference in Conditional Neural Networks. Authors: S. Selvam, A. Nagarajan, A. Raghunathan.	Near-Free Lifetime Extension for 3D NAND Flash via Opportunistic Self-Healing. Authors: T. Ren, Q. Li, Y. Lv, M. Ye, N. Guan, C. J. Xue.	CaBaFL: Asynchronous Federated Learning via Hierarchical Cache and Feature Balance. Authors: Z. Xia, M. Hu, D. Yan, X. Xie, T. Li, A. Li, J. Zhou, M. Chen.	Securing Large Monolithic Systems: Challenges and Opportunities. Author: A. Venkat.	
11:50 - 11:55	LB: Reducing ADC Front-end Costs During Training of On-sensor Printed Multilayer Perceptrons. Authors: F. Afentaki, P. Duarte, G. Zervakis, M. Tahoori.	Hardware and Software Co-design for Optimized Decoding Schemes and Application Mapping in NVM Compute-in-Memory Architectures.	LB: ML-based Fast and Precise Embedded Rack Detection Software for Docking and Transport of Autonomous Mobile Robots using 2D LiDAR. Authors: S. Hong, D. Park.		

11:55 - 12:00	LB: Energy-efficient Personalized Federated Continual Learning on Edge. Authors: Z. Yang, H. Wang, Q. Sun.	Authors: S.M. Siddaramu, A. Nezhadi, M. Mayahinia, S. Ghasemi, M. Tahoori.			
12:00 - 12:30	Poster Session				
12:30 - 13:30	Lunch Break				
	Oak Forest B	Hannover I (80)	Oak Forest A	Hannover II	Hannover III
13:30 - 15:00	CASES 2: AI Accelerators * Session Chair: Ganapati Bhat	CODES+ISSS 2: Hardware-Software Co-Design * Session Chairs: Aman Arora and Rajesh Kedia	EMSOFT 2: Robot Operating Systems and Automotive Networks * Session Chair: Sanjoy Baruah	Special Session 2: Emerging Architecture Design, Control, and Security Challenges in Software Defined Vehicles (SDVs) Organizers: S. Pasricha and A.K. Singh	NSF Panel: Funding Opportunities at NSF Organizers: David Corman and Pavithra Prabhakar
13:30 - 13:50	A Dataflow-aware Network-on-Interposer for CNN Inferencing in the Presence of Defective Chiplets. * Best paper candidate. Authors: H. Sharma, U. Ogras, A. Kalyanaraman, P. Pande.	ROI-HIT: Region of Interest-driven High-dimensional Microarchitecture Design Space Exploration. * Best paper candidate. Authors: X. Zhao, T. Gao, A. Zhao, Z. Bi, C. Yan, F. Yang, S. G. Wang, D. Zhou, X. Zeng.	Dynamic Priority Scheduling of Multi-Threaded ROS 2 Executor with Shared Resources. Authors: A. Al Arafat, K. Wilson, K. Yang, Z. Guo.	Emerging In-Vehicle Architectures in the Age of SDV. Author: K. Shazzad.	
13:50 - 14:10	ARTEMIS: A Mixed Analog-Stochastic In-DRAM Accelerator for Transformer Neural Networks. Authors: S. Affi, I. Thakkar, S. Pasricha.	Bank on Compute-near-Memory: Design Space Exploration of Processing-near-Bank Architectures Authors: R.M. Morillas, G. Ansaloni, M. Zapater, A. Levisse, S.A. Chamazcoti, T. Evenblij, D. Biswas, F. Catthoor, D. Atienza.	Modelling and Analysis of the LatestTime Message Synchronization Policy in ROS. Authors: C. Wu, R. Li, N. Zhan, N. Guan.	New Paradigms for Automotive Control in the Era of SDV. Author: S. Chakraborty.	In this talk, we will present funding opportunities at the National Science Foundation

14:10 - 14:30	AxOSpike: Spiking Neural Networks-driven Approximate Operator Design. Authors: S. Ullah, S. Sahoo, A. Kumar.	EQ-ViT: Algorithm-Hardware Co-Design for End-to-End Acceleration of Real-Time Vision Transformer Inference on Versal ACAP Architecture Authors: P. Dong, J. Zhuang, Z. Yang, S. Ji, Y. Li, D. Xu, H. Huang, J. Hu, A.K. Jones, Y. Shi, Y. Wang, P. Zhou.	Thread Carefully: Preventing Starvation in the ROS 2 Multithreaded Executor. * Best paper candidate. Authors: H. Teper, D. Kuhse, M. Guenzel, G. von der Brüggen, F. Howar, J. Chen.	Emerging Robustness: Robust Perception with Embedded Systems in SDVs. Author: S. Pasricha.	National Science Foundation broadly related to embedded systems. Specifically, we will highlight core programs such as Software Hardware Foundations and cross-cutting programs including Cyber-Physical Systems and Formal Methods in the Field. We will discuss the goals, scope, and logistics of proposal submissions to these programs. NSF program directors David Corman and Pavithra Prabhakar will present. The presentation will be followed by Q&A.
14:30 - 14:50	Efficient Image Processing via Memristive-based Approximate In-Memory Computing. Authors: F. Seiler, N. TaheriNejad.	NeRF-PIM: PIM Hardware-Software Co-design of Neural Rendering Networks Authors: J. Heo, S. Yoo.	Large Data Transfer Optimization for Improved Robustness in Real-Time V2X-Communication. Authors: A. Bendrick, N. Sperling, R. Ernst.	Emerging Security: Covert Channel and In-vehicle Network Spoofing Attacks on Embedded Systems in SDVs. Author: A.K. Singh.	
14:50 - 14:55	LB: ViTSen: Bridging Vision Transformers and Edge Computing with Advanced In/Near-Sensor Processing. Authors: S. Tabrizchi, B. Reidy, D. Najafi, S. Angizi, R. Zand, A. Roohi.	LB: Co-designing Perception-based Autonomous Systems on CPU-GPU platforms Authors: S. Singh, A. R. Molla, A. Mondal, S. Dey.	WiP: Development of Margin-shared System-level Logical Execution Time Simulator to Support Scheduling Design of Automotive ECUs. Authors: M. Mizoguchi, Y. Kato, K. Yoshimura, T. Nokaido, Y. Ikeda, H. Sakamoto.		
14:55 - 15:00	LB: HDVQ-VAE: Binary Codebook for Hyperdimensional Latent Representations. Authors: A. Bryant, S. Aygun.	LB: FDPFS: Leveraging File System Abstraction for FDP SSD Data Placement Authors: P.-X. Chen, D. Seo, N. Dutt.	WiP: Real-Time Vehicular Traffic-Based Crowd Density Estimation for Reducing Epidemiological Risks. Authors: S. Alhazmi, S. Lowy, A. Cheng.		
15:00 - 15:30	Poster Session & Coffee Break				
15:30 - 17:00	CASES 3: Security meets Embedded Systems I * Session Chair: Sudeep Pasricha	CODES+ISSS 3: Security and Reliability * Session Chairs: Andreas Gerstlauer and Fareena Saqib	EMSOFT 3: Cyber-Physical Systems * Session Chair: Pierluigi Nuzzo	Special Session 3: Design for Environmental Sustainability in Computing Organizers: J. Hu and P. Zhou	PhD forum and Recruitment event

15:30 - 15:50	<p>MaskedHLS: Domain-Specific High-Level Synthesis of Masked Cryptographic Designs. *</p> <p>Best paper candidate. Authors: N. Sarma, A. Thakur, C. Karfa.</p>	<p>Flexible Generation of Fast and Accurate Software Performance Simulators from Compact Processor Descriptions. *</p> <p>Best paper candidate. Authors: C. Foik, R. Kunzelmann, D. Mueller-Gritschneider, U. Schlichtmann.</p>	<p>Statistical Reachability Analysis of Stochastic Cyber-Physical Systems under Distribution Shift. Authors: N. Hashemi, L. Lindemann, J. Deshmukh.</p>	<p>Modeling and Optimizing the Carbon Objective for Sustainable Architectures and Systems. Author: A.K. Jones.</p>	
15:50 - 16:10	<p>Balancing Security and Efficiency: System-Informed Mitigation of Power-Based Covert Channels. Authors: J. Gonzalez-Gomez, M. Sikal, L. Bauer, H. Khdr, J. Henkel.</p>	<p>HMC-FHE: A Heterogeneous Near Data Processing Framework for Homomorphic Encryption. Authors: Z. Chen, Z. Cao, Z. Shen, L. Ju.</p>	<p>Analysis and Prevention of MCAS-Induced Crashes. *</p> <p>Best paper candidate. Authors: N. Curran, T. Kennings, K. Shin.</p>		
16:10 - 16:30	<p>TPE-Det: A Tamper-Proof External Detector via Hardware Traces Analysis against IoT Malware. Authors: N. Yamin, G. Bhat.</p>	<p>Meta-Scanner: Detecting Fault Attacks via Scanning FPGA Designs Metadata. Authors: H. Nassar, J. Krautter, L. Bauer, D.R.E. Gnad, M. Tahoori, J. Henkel.</p>	<p>Revisiting Dynamic Scheduling of Control Tasks: A Performance-aware Fine-grained Approach. Authors: S. Adhikary, I. Koley, S. Ghosh, S. Ghosh, S. Dey.</p>	<p>Sustainable Deployment of Deep Neural Networks on Non-Volatile Compute-in-Memory Accelerators. Author: Y. Shi.</p>	
16:30 - 16:50	<p>Formal Verification of Virtualization-based Trusted Execution Environments. Authors: H. Witharana, H. Weerasena, P. Mishra.</p>	<p>Latent RAGE: Randomness Assessment using Generative Entropy Models. Authors: K. Pratihar, R.S. Chakraborty, D. Mukhopadhyay.</p>	<p>Backdoor Attacks on Safe Reinforcement Learning-Enabled Cyber-Physical Systems. Authors: S. Jiang, M. Liu, F. Kong.</p>		
16:50 - 16:55	<p>LB: A Novel Insight into the Vulnerability of DDR4 DRAM Cells Across Multiple Hammering Settings. Authors: R. Zhou, J. Liu, N. Kochar, S. Ahmed, A. Rakin, S. Angizi.</p>	<p>Enhancing SRAM-Based PUF Reliability Through Machine Learning-Aided Calibration Techniques.</p>	<p>LB: Towards Precision-Aware Safe Neural-Controlled Cyber-Physical Systems. Authors: H. Thevendhriya, S. Ghosh, D. Lohar.</p>	<p>End-To-End Carbon Footprint Assessment and Modeling of Deep Learning</p>	

16:55 - 17:00	WiP: ACPO: An AI-Enabled Compiler Framework. Authors: A. Ashouri, M. Manzoor, D. Vu, R. Zhang, Z. Wang, A. Zhang, B. Chan, T. Czajkowski, Y. Gao.	Authors: K. Pratihari, S. Chatterjee, R.S. Chakraborty, D. Mukhopadhyay.		Deep Learning. Author: F. Chen.	
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17:00 - 17:30	Poster Session				
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Tuesday, October 1					
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Oak Forest A+B					
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08:30 - 09:00	Test of Time Award Ceremony				
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09:00 - 10:00	KEYNOTE 2: How Computational Infrastructure is Changing the Planet (for Better and for Worse). And How Planetary Thinking Might Shift How We Do Computational Infrastructure. Speaker: Prof. Steven J. Jackson (Cornell) – Session chair: Sharon Hu				
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10:00 -10:30	Coffee Break				
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	Oak Forest B	Hannover I	Oak Forest A	Hannover II	
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10:30 - 12:00	CASES 4: Memory and Storage Systems Session Chair: Preeti Ranjan Panda	CODES+ISSS 4: Acceleration of Neural Networks Session Chairs: Soonhoi Ha and Jason Xue	EMSOFT 4: Verification and Scheduling for Learning-Enabled Systems * Session Chair: Borzoo Bonakdarpour	Embedded Systems Software Competition (ESSC) Organizers: Bires Kumar Joardar and Ganapati Bhat	
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10:30 - 10:50	LightFS: A lightweight host-CSD coordinated file system optimizing for heavy small file accesses. Authors: J. Li, Z. Shen, D. Liu, X. Chen, K. Zhong, Z. Zeng, Y. Tan.	FlexBCM: Hybrid Block-Circulant Neural Network and Accelerator Co-Search on FPGAs Authors: W. Lou, Y. Qin, X. Wang, L. Gong, C. Wang, X. Zhou.	Interval Image Abstraction for Verification of Camera-Based Autonomous Systems. Authors: Habeeb P, D. D'Souza, K. Lodaya, P. Prabhakar.		
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10:50 - 11:10	NICE: A Non-intrusive In-Storage-Computing Framework for Embedded Applications. Authors: T. Wang, Y. Zhu, S. Li, J. Xue, C. Ma, Y. Wang, Z. Shen, Z. Shao.	OPIMA: Optical Processing-In-Memory for Convolutional Neural Network Acceleration Authors: F. Sunny, A. Shafiee, A. Balasubramaniam, M. Nikdast, S. Pasricha.	Polynomial Neural Barrier Certificate Synthesis of Hybrid Systems via Counterexample Guidance. * Best paper candidate. Authors: H. Zhao, B. Liu, L. Dehbi, H. Xie, Z. Yang, H. Qian.		
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11:10 - 11:30	NOVELLA: Non-volatile Last-Level Cache Buffer for	Training on the Fly: On-device Self-supervised Learning	BERN-NN-IBF: Enhancing Neural Network Based		
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11:30 - 11:50	NOBtree: A NUMA-Optimized Tree Index for Non-Volatile Memory. Authors: Z. Chu, P. Jin, Y. Luo, X. Wang, S. Wan.	FlexFL: Heterogeneous Federated Learning via APoZ-Guided Flexible Pruning in Uncertain Scenarios. Authors: Z. Chen, C. Jia, M. Hu, X. Xie, A. Li, M. Chen.	VALO: A Versatile Anytime Framework For LiDAR based Object Detection Deep Neural Networks. Authors: A. Soyigigit, S. Yao, H. Yun.	
11:50 - 11:55	LB: MUSIC-lite: Efficient MUSIC using Approximate Computing: An OFDM Radar Case Study. Authors: R. Bhattacharjya, A. Sarkar, B. Maity, N. Dutt.	LB: Heterogeneous Accelerator Design for Multi-DNN Workloads via Heuristic Optimization. Authors: K. Balaskas, H. Khdr, M. B. Sikal, F. Kreß, K. Siozios, J. Becker, J. Henkel.	LB: An Explainable and Formal Framework for Hypertension Monitoring using ECG and PPG. Authors: A. Panda, A. Anand, S. Pinisetty, P. Roop.	
11:55 - 12:00	LB: Novel Toolset for Efficient Hardwired Micro-Op Translation in Embedded Microarchitectures. Authors: K. Phillipson, M. Rywalt, B. Chatterjee, E. Schwartz, G. Stitt.	LB: Characterizing CNN Throughput and Energy Under Multi-threaded and Multi-accelerator Execution. Authors: M.A. Muneeb, R. Kedia.	WiP: On-device Retrieval Augmented Generation with Knowledge Graphs for Personalized Large Language Models. Authors: C. Lee, D. Prahlad, D. Kim, H. Kim.	
12:00 - 12:30	Poster Session			
12:30 - 13:30	Lunch Break			
	Oak Forest B	Hannover I	Oak Forest A	Hannover II
13:30 - 15:00	CASES 5: Hardware and Software Co-Design Session Chair: Partha Pande	CODES+ISSS 5: Domain-Specific Optimizations Session Chairs: Preeti Ranjan Panda and Aviral Shrivastava	EMSOFT 5: Cyber-Security Session Chair: Alessandro Biondi	ACM Students Research Competition (SRC) Organizer: Wanli Chang
13:30 - 13:50	Indoor-Outdoor Energy Management for Wearable IoT Devices with Conformal Prediction and Rollout. Authors: N. Yamin, G. Bhat.	SCIMITAR: Stochastic Computing In-Memory In-situ Tracking ARchitecture for Event-Based Cameras. Authors: W. Romaszkan, J. Yang, A. Graening, V.K. Jacob, J. Sen, S. Pamarti, P. Gupta.	ECG: Augmenting Embedded Operating System Fuzzing via LLM-based Corpus Generation. Authors: Q. Zhang, Y. Shen, J. Liu, Y. Xu, H. Shi, W. Chang, Y. Jiang.	13:30-13:45: Improved Data Encoding for Emerging Computing Models: From Stochastic Computing to Hyperdimensional Computing. Author: M.S. Moghadam.

13:50 - 14:10	FreePrune: An Automatic Pruning Framework Across Various Granularities Based on Training-free Evaluation. Authors: M. Tang, N. Liu, T. Yang, H. Fang, Q. Lin, Y. Tan, X. Chen, D. Liu, K. Zhong, A. Ren.	Implementing Oversized Neural Network on Nonvolatile FPGAs. Authors: H. Zhang, J. Zuo, H. Zheng, S. Liu, M. Luo, M. Zhao.	Caphammer: Exploiting Capacitor Vulnerability of Energy Harvesting Systems. Authors: J. Choi, J. Choi, H. Joe, C. Jung.	13:45-14:00: Enhancing Safety of Cyber-Physical Systems in Real Time. Author: M. Liu.
14:10 - 14:30	NebulaFL: Self-Organizing Efficient Multi-Layer Federated Learning Framework with Adaptive Load Tuning in Heterogeneous Edge Systems. Authors: Z. Lian, J. Cao, Q. Cao, Z. Zhu, W. Liu, X. Zhou.	Detecting Spoofed Noisy Speeches via Activation-Based Residual Blocks for Embedded Systems. Authors: J. Zhan, S. Peng, W. Jiang, X. Wang, J. Liu.	Untrusted Code Compartmentalization for Bare Metal Embedded Devices. Authors: L. Tyler, I. Nunes.	14:00-14:15: ECG: Augmenting Embedded Operating System Fuzzing via LLM-based Corpus Generation. Author: Q. Zhang.
14:30 - 14:50	Domain-Adaptive Online Active Learning for Real-Time Intelligent Video Analytics on Edge Devices. Authors: M. Boldo, M. De Marchi, E. Martini, S. Aldegheri, N. Bombieri.	EMI: Energy Management meets Imputation in Wearable IoT Devices. Authors: D. Hussein, N. Yamin, G. Bhat.	Parallel Fuzzing of IoT Messaging Protocols through Collaborative Packet Generation. Authors: Z. Luo, J. Yu, Q. Du, Y. Zhao, F. Wu, H. Shi, W. Chang, Y. Jiang.	14:15-14:30: Ghostbuster: A Software Approach for Reducing Ghosting Effect on Electrophoretic Displays. Author: T. Hu.
14:50 - 14:55	LB: FPonAP: Implementation of Floating Point Operations on Associative Processors. Authors: W. Amer, M. Rakka, F. Kurdahi.	LB: Dynamic Segmented Bus for Energy-efficient Last-level Cache in Advanced Interconnect-dominant Nodes. Authors: M. Mayahinia, T. Marinelli, Z. Pei, H.-H. Liu, C. Pan, Z. Tokei, F. Catthoor, M. Tahoori.	LB: Run-Time ROP Attack Detection on Embedded Devices Using Side Channel Power Analysis. Authors: J. Xu, D. Abraham, I. Harris.	14:30-14:45: Compiler-directed Memory Management for Data Confidentiality in Energy Harvesting Systems. Author: J. Park.
14:55 - 15:00	WiP: Temporal RegionDrop – Frame Difference Sparsity for Efficient Video Inference. Authors: Y. Sada, S. Shibata, Y. Kobayashi, T. Takenaka.	LB: MetaTinyML: End-to-End Metareasoning Framework for TinyML Platforms. Authors: M. Navardi, E. Humes, T. Mohsenin.		
15:00 - 15:30	Poster Session & Coffee Break			
	Oak Forest A+B			

15:30 - 17:00	<p align="center">Panel 1: The embedded systems and the environmental crisis</p> <p align="center">Panelists: Sudeep Pasricha (Colorado State University), Peipei Zhou (Brown University), Josiah Hester (Georgia Tech), Dan Andresen (Kansas State, NSF), Jeronimo Castrillon (TU Dresden). Panel chair: Alex K. Jones (Syracuse University)</p>			
17:00 - 18:00	Competition Demo Session			
18:00 - 22:00	Banquet			
Wednesday, October 2				
Oak Forest A+B				
08:30 - 09:00	Best Paper Award Ceremony			
09:00 - 10:00	<p align="center">KEYNOTE 3: Embedded Exponentials: Milestones, Momentum, and the Frontier</p> <p align="center">Speaker: Prof. Tulika Mitra (NUS) – Session chair: Tei-Wei Kuo</p>			
10:00 - 10:30	Coffee Break			
	Oak Forest B	Hannover I	Oak Forest A	Hannover II
10:30 - 12:00	<p>CASES 6: Security meets Embedded Systems II</p> <p>Session Chair: Jeferson Gonzalez Gomez</p>	<p>CODES+ISSS 6: Performance and Reliability</p> <p>Session Chair: Amit Kumar Singh</p>	<p>EMSOFT 6: Systems</p> <p>Session Chair: Cong Liu</p>	<p>Special Session 4: Estimation and Optimization of DNNs for Embedded Platforms</p> <p>Organizers: A. Jantsch, S. Han, L. Meng, and O. Bringmann</p>
10:30 - 10:50	<p>FDPUF: Frequency-Domain PUF for Robust Authentication of Edge Devices.</p> <p>Authors: S. Paul, A. Dasgupta, S. Bhunia.</p>	<p>CHEF: A Framework for Deploying Heterogeneous Models on Clusters with Heterogeneous FPGAs.</p> <p>Authors: Y. Tang, Y. Song, N. Elango, S.R. Priya, A.K. Jones, J. Xiong, P. Zhou, J. Hu.</p>	<p>KPAC: Efficient Emulation of the ARM Pointer Authentication Instructions.</p> <p>Authors: I. Ostapyshyn, G. Serra, T. Thomas, D. Lohmann.</p>	<p>Visual Language Models for Edge AI 2.0.</p> <p>Author: S. Han.</p>
10:50 - 11:10	<p>Multi-Mode Security-Aware Real-Time Scheduling on Multiprocessors.</p> <p>Authors: J. Ren, C. Liu, C. Lin, W. Jiang, P. Wang, X. Qi, S. Li, S. Li.</p>	<p>High-Performance Remote Data Persisting for Key-Value Stores via Persistent Memory Region.</p> <p>Authors: Y. Luo, P. Jin, X. Wang, Z. Chu, K. Guo, J. Guo, P. Xu, F. Liu.</p>	<p>iFKVS: Lightweight Key-Value Store for Flash-Based Intermittently-Computing Devices.</p> <p>Authors: Y. Chen, T. Liao, L. Chang.</p>	<p>DNN Model Optimization and Implementation for Embedded Systems.</p> <p>Author: L. Meng.</p>

11:10 - 11:30	SENTINEL: Securing Indoor Localization against Adversarial Attacks with Capsule Neural Networks. Authors: D. Gufran, P. Anandathirtha, S. Pasricha.	PARS: A Pattern-Aware Spatial Data Prefetcher Supporting Multiple Region Sizes. Authors: Y. Lin, W. Lin, J. Xu, Y. Chen, Z. Jin, J. Qin, J. He, S. Cai, Y. Zhang, Z. Wang, W. Chen.	D-Linker: Debloating Shared Libraries by Relinking From Object Files. Authors: J. He, P. Hou, J. Yu, J. Qi, Y. Sun, L. Li, R. Zhao, Y. Wu.	Latency estimation. Author: A. Jantsch.
11:30 - 11:50	Learning Memory Contention Timing Models With Automated Platform Profiling. Authors: A. Stevanato, M. Zini, A. Biondi, A. Biasci, B. Morelli.	GEAR: Graph-Evolving Aware Data ArrangeR to Enhance the Performance of Traversing Evolving Graphs on SCM. Authors: W.-Y. Wang, C.-F. Wu, Y.-C. Chen, T.-W. Kuo, Y.-H Chang.	Ghostbuster: A Software Approach for Reducing Ghosting Effect on Electrophoretic Displays. Authors: T. Hu, M. Cui, M. Lyu, T. Yang, Y. Zhou, Q. Deng, C. Xue, N. Guan.	Multi-level Performance Estimation of Multi-instance AI Compute Platforms. Author: O. Bringmann.
11:50 - 11:55	LB: SPELL: An End-to-End Tool Flow for LLM-Guided Secure SoC Design for Embedded Systems. Authors: S. Paria, A. Dasgupta, S. Bhunia.	LB: Enhancing HLS Performance Prediction on FPGAs through Multi-Modal Representation Learning. Authors: L. Shang, T. Wang, L. Gong, C. Wang, X. Zhou.	WIP: ESops - An Agile Pipeline for Next-Generation Embedded Systems Development. Authors: M. Al Maruf, A. Azim.	
11:55 - 12:00	LB: Hiding in Plain Sight: Reframing Hardware Trojan Benchmarking as a Hide&Seek Modification. Authors: A. Sarihi, A. Patooghy, P. Jamieson, A. Badawy.	LB: MONO: Enhancing Bit-Flip Resilience with Bit Homogeneity for Neural Networks. Authors: M. Eslami, Y. Liu, S. Ullah, M.E.S. Nasab, R. Hosseini, S.A. Mirsalari, A. Kumar.		
12:00 - 12:30	Poster Session			
12:30 - 13:30	Lunch Break			
	Oak Forest B	Hannover I	Oak Forest A	Hannover II
13:30 - 15:00	CASES 7: Architectures and Embedded Systems Session Chair: Biresh Kumar Joradar	CODES+ISSS 7: It's All about Time Session Chairs: Andy Pimentel and Soumyajit Dey	EMSOFT 7: Formal Methods and Verification Session Chair: Timothy Bourke	Special Session 5: Neuro-Symbolic Architecture Meets Large Language Models: A Memory-Centric Perspective Organizers: M. Ibrahim, Z. Wan, C.-K. Liu, A. Raychowdhury

13:30 - 13:50	Page Type-aware Full-sequence Program Scheduling via Reinforcement Learning in High Density SSDs. Authors: J. Li, Z. Cai, B. Gerofi, Y. Ishikawa, J. Liao.	ML-Based Thermal and Cache Contention Alleviation on Clustered Manycores with 3D HBM. Authors: M.B. Sikal, H. Khdr, L. Siddhu, J. Henkel.	Hyper parametric timed CTL. Authors: M. Waga, É. André.	Biologically Inspired Computing Architectures and Circuits for Embodied Intelligence. Author: A. Raychowdhury.
13:50 - 14:10	DREAMx: A Data-driven Error Estimation Methodology for Adders Composed of Cascaded Approximate Units. Authors: M. Hanif, A. Arous, M. Shafique.	HuNT: Exploiting Heterogeneous PIM Devices to Design a 3D Manycore Architecture for DNN Training. Authors: C. Ogbogu, G. Narang, B.K. Joardar, J.R. Doppa, K. Chakrabarty, P.P. Pande.	Contract-Based Hierarchical Modeling and Traceability of Heterogeneous Requirements. Authors: N. Naik, A. Pinto, P. Nuzzo.	Efficient LLMs: Innovations in Quantization, Memory, and Attention. Author: P. Panda.
14:10 - 14:30	GOURD: Tensorizing Streaming Applications to Generate Multi-instance Compute Platforms. Authors: P. Schmid, P. Bernardo, C. Gerum, O. Bringmann.	Time-Triggered Scheduling for Non-Preemptive Real-Time DAG Tasks Using 1-Opt Local Search. Authors: S. Wang, D. Li, S. Huang, X. Deng, A.H. Sifat, J.-B. Huang, C. Jung, R.K. Williams, H. Zeng.	Efficient Discovery of Actual Causality using Abstraction-Refinement. Authors: A. Rafieioskouei, B. Bonakdarpour.	Energy-Efficient Computational Memories as Heterogenous CMOS+X Platforms for Neuro-Symbolic and Transformer Architectures. Author: H. Li.
14:30 - 14:50	GPU Performance Optimization via Inter-group Cache Cooperation. Authors: G. Wang, Y. Du, W. Huang.	Runtime Monitoring of ML-based Scheduling Algorithms toward Robust Domain-Specific SoCs. Authors: A.A. Goksoy, A. Kanani, S. Chatterjee, U.Y. Ogras.	Approximate Conformance Checking for Closed-Loop Systems with Neural Network Controllers. Authors: Habeeb P, L. Gupta, P. Prabhakar.	Von Neumann-like Architecture for Computing with High-Dimensional Vectors Motivated by Neuroscience and Psychology. Author: P. Kanerva.
14:50 - 14:55	HLS-based Approach for Embedded Real-Time Ray-Tracing in Wireless	WiP: Worst-Case Execution-Time Measurement Techniques for Nonlinear Model Predictive Controllers. Authors: R. Krishnamurthy, G.A. Perez, J. Denil, W. Goossens.	LB: Methodology for formal verification of hardware safety strategies using SMT. Authors: A. Faure-Gignoux, K. Delmas, A. Gauffriau, C. Pagetti.	The Application of Spiking Neural Networks (SNNs) in Large Language Models and Their Implementation with

14:55 - 15:00	Communications. Authors: J. An, S. Saidi.	WiP: Context and Noise Aware Resilience for Autonomous Driving Applications. Authors: H. Alikhani, A. Kanduri, P. Liljeberg, A.M. Rahmani, N. Dutt.		From Implementation with Compute-in-Memory (CIM). Author: Y. Chen.
15:00 - 15:30	Poster Session & Coffee Break			
	Oak Forest A+B			
15:30 - 17:00	<p align="center">Panel 2: Celebrating 20 years of ESWeek</p> <p align="center">Panelists: Luca Carloni (Columbia U), Nikil Dutt (UC Irvine), Rolf Ernst (TU Braunschweig), Sharon Hu (Notre Dame), Avrial Shrivastava (ASU).</p> <p align="center">Panel chair: Marilyn Wolf (UNL).</p>			
17:00 - 17:30	Closing session			
Thursday, October 3				
	Hannover I	Hannover II	Hannover III	Capital
08:30 - 09:00	Welcome speech Srinivas Pinisetty, Qi Zhu			
09:00 - 09:30	MEMOCODE Keynote 1 Towards a Design Flow for Verified AI-Based Autonomy Speaker: S.A. Seshia (UC Berkeley). Session Chair: Q. Zhu.		RSP 1: Crypto Session Chair: Tobias Strauch. Decoding Attack Behaviors by Analyzing Patterns in Instruction-Based Attacks using gem5 Authors: M. Awais, M. Mushtaq, L. Naviner, F. Bruguier, J. H. Yahya, P. Benoit.	MSC Keynote Desktop Swap on Mobile Device: Is it a Good Idea? Speaker: L.-P. Chang (National Yang Ming Chiao Tung University).
09:30 - 10:00			Temporal Staging for Correct-by-Construction Cryptographic Hardware Authors: Y. Forman, W. Harrison.	
10:00 - 10:30	Coffee Break			
10:30 - 12:30	MEMOCODE 1: Formal Verification and Monitoring * Session chair: Sanjiva Prasad	TCRS 1: Coordinating Time-Sensitive Dynamic Systems	RSP 2: Hardware Session Chair: K. Kent	MSC 1: Design and Optimization for Memory and Storage Systems

10:30 - 11:00	Fast Robust Monitoring for Signal Temporal Logic with Value Freezing Operators (STL*). * Best paper candidate Authors: B. Ghorbel, V. Prabhu.	Layered Scheduling: Toward Better Real-Time Lingua Franca. Authors: F. Paladino, E. Jellum, E. Soyer, E.A. Lee.	Invited Talk: Circuit Partitioning with Reinforcement Learning and Edge-Based Initialization. Authors: K.C. Cheng, U. F. Siddigi, G. Grewal, S.M. Areibi.	(10:30-11:10) Read Retry Mechanism for 3D NAND Flash Memory: Observations, Analyses, and Solutions. Author: J.-W. Hsieh.
11:00 - 11:30	Modelling and proving pipeline monotonicity in Coq. * Best paper candidate Authors: A. Gruin, A. Bonenfant, T. Carle, C. Rochange.	Toward Dynamism in Distributed Lingua Franca Programs. Authors: C. Jerad, E.A. Lee.	Advancing Formal Verification: Fine-Tuning LLMs for Translating Natural Language Requirements to CTL Specifications. Authors: R. Zrelli, H. A. Misson, M. Ben Attia, F. Gohring de Magalhaes, A. Shabah, G. Nicolescu.	(11:10-11:50) When Memory-Storage Systems Go Unconventional: Some Techniques and Thoughts. Author: P.-C. Huang.
11:30 - 12:00	Perception-based Runtime Monitoring and Verification for Human-Robot Construction Systems. * Best paper candidate Authors: A. Pramanik, S. W. Choi, Y. Li, L. Nguyen, K. Kim, D.H. Tran.	Navigating Time and Energy Trade-offs in Reactive Heterogeneous Systems. Authors: S. Lin, T. Tanneberger, J. Bi, G. Feng, R. Xu, J. Robledo, R. Khasanov, J. Castrillon.	Transaction Level Hierarchy Guided and Functional Coverage Driven Deductive Formal Verification. Authors: T. Strauch.	(11:50-12:30) Achieving High-Performance Out-of-Core Graph Processing with I/O Optimizations. Author: T.-Y. Yang.
12:00 - 12:30	Safety and Progress Proofs of Reactive Autonomous Racing Algorithm. Authors: A. Karimi, M. Goyal, P. S. Duggirala.	Lustre, Fast First and Fresh. Authors: T. Bourke, M. Pouzet.	Cost-Effective Cyber-Physical System Prototype for Precision Agriculture with a Focus on Crop Growth. Authors: P. Kumar, H. Kim.	
12:30 - 13:30	Lunch Break			
13:30 - 15:00	MEMOCODE 2: Learning-based Systems Session chair: Qi Zhu			MSC 2: Pearls on Tool Chains of In-Memory Computing
13:30 - 14:00	Model-free PAC Time-Optimal Control Synthesis with Reinforcement Learning. Authors: M. Liu, P. Lu, X. Chen, F. Kong, O. Sokolsky, I. Lee.			Towards Energy-Efficient Memory-Centric Computer Architectures: A Design Tool Perspective. Author: Z. Zhu.

14:00 - 14:30	Exploring Compositional Neural Networks for Real-Time Systems. Authors: S. Chatterjee, N. Allen, N. Patel, P. Roop.	TCRS + RSP: Joint keynote (Room: Hannover II) Certification of (hybrid) multi-core architectures Speaker: C. Pagetti (Onera)		In-Memory Computing Low Level Programming Model and Compiler Innovation. Author: H.-P. Charles.
14:30 - 15:00	MaLT: Machine-Learning-Guided Test Case Design and Fault Localization of Complex Software Systems. Authors: Y. Ji, S. Mak, R. Lekivetz, J. Morgan.			In-Memory Computing Research and Development: Status and Perspectives. Author: W. Kang.
15:00 - 15:30	Coffee Break			
15:30 - 17:00	MEMOCODE 3: Invited Session Session chair: Srinivas Pinisetty	TCRS 2: Timing Challenges in Cyber-Physical Systems	RSP 3: Synthesis Flow and Performance Evaluation Session Chair: F. Magalhaes	
15:30 - 16:00	Logical Synchrony + Functional Processes => Observable Determinacy. Authors: S. Prasad.	Software-Defined Watchdog Timers for Cyber-Physical Systems. Authors: B. Asch, E. Jellum, M. Lohstroh, E.A. Lee.	Non-interfering On-line and In-field SoC Testing. Authors: T. Strauch.	
16:00 - 16:30	Self-Powering Dataflow Networks – Concepts and Implementation. Authors: A. Karim, J. Falk, D. Schmidt, J. Teich.	Time-Sensitive Networking in Cyber-Physical Systems. Authors: H. Austad, G. Mathisen.	Page size exploration for RISC-V systems: the case for HPC. Authors: E.T. Ribeiro, C. Fuguet, C. Fabre, F. Pétrot.	
16:30 - 17:00	Neuro-symbolic Generative AI Assistant for System Design. Authors: S. Jha, S.K. Jha, and S. Velasquez.	GNN-MiCS: Graph Neural-Network-Based Bounding Time in Embedded Mixed-Criticality Systems. Authors: B. Ranjbar, P. Justen, A. Kumar.	Enhancing the VTR Flow: Integration of ABC9 via Yosys for Better Technology Mapping and Optimization. Authors: N. Jafarof, K. Kent.	
Friday, October 4				
	Hannover I	Hannover II	Hannover III	

09:00 - 10:00	MEMOCODE Keynote 2 From Neural Network Verification to Formal Verification for Neuro-Symbolic Artificial Intelligence (AI). Author: T.T. Johnson (Vanderbilt University). Session Chair: C. Pagetti.		Welcome Speech: X. Zheng, A.K. Mok, A. Khazraei, M. Pajic. TACPS Keynote Safety Verification via Deep Learning. Author: S. Baruah (Washington University in St. Louis).
10:00 - 10:30	Coffee Break		
10:30 - 12:30	MEMOCODE 4: Hardware/CPS Verification Session chair: Marc Pouzet.	LLM-PIM 1 Session Chair: Z. Zhu.	TACPS 1 Session Chair: R. Piskac.
10:30 - 11:00	Formal Fault Injection in Digital Blocks with Mined Assertions. Authors: D. Zuccala, P. Breuil, J. Daveau, P. Roche, K. Morin-Allory.	Keynote 1 Enhancing Resilience of In-Memory Computing to Device Variations. Speaker: S. Hu (Notre Dame).	Invited Talk 1 (10:30 - 11:15) How Safe Will I Be Given What I See? Visual Prediction of Calibrated Safety Chances with (Foundation) World Models. Author: I. Ruchkin.
11:00 - 11:30	Higher-order Hardware: Implementation and Evaluation of The Cephalopode Graph Reduction Processor. Authors: J. Pope, C.H. Seger, H. Valter.		Invited Talk 2 (11:15 - 12:00) Behavioral Testing and Certification of Autonomous Vehicles. Author: P.S. Duggirala.
11:30 - 12:00	WiP: Physics-Aware Mixed-Criticality Systems Design via End-to-End Verification of CPS. Authors: K. Wilson, A. Al Arafat, J. Baugh, R. Yu, Z. Guo.	Keynote 2 3D Integrated Computing-In-Memory Chips.	

12:00 - 12:30	WiP: Configuring Safe Spiking Neural Controllers for Cyber-Physical Systems through Formal Verification. Authors: A. Gupta, S. Ghosh, A. Banerjee, S.K. Mohalik.	Speaker: B. Gao (Tsinghua University).	Dagstuhl and Shonan seminar preparation and discussion. Moderator: X. Zheng.
12:30 - 13:30	Lunch Break		
13:30 - 15:00	MEMOCODE 5: WiP - Distributed systems, Sensor fusion, Statecharts Session chair: Sridhar Duggirala	LLM-PIM 2 Session Chair: Z. Zhu.	TACPS 2 Session Chair: M. Pajic.
13:30 - 14:00	WiP: Safety Assurance for Autonomous Systems with Multiple Sensor Modalities. Authors: A. Balakrishnan, R. Bernard, S. Narayanan, V. Kudalkar, Y. Zhao, P. Nagaraja, G. Markov, C. Budnik, H. Degen, L. Lindemann, J.V. Deshmukh.	Invited Talk 1 (13:30 - 14:15) Energy Efficient 3D Heterogeneous Many-core Architecture for Transformer Acceleration. Author: P. Dhingra.	Invited Talk 3 (13:30 - 14:15) Formal Methods for Accountable Cyber-Physical Systems. Author: R. Piskac.
14:00 - 14:30	WiP: Efficient Coordination for Distributed Discrete-Event Systems. Authors: B. Jun, E.A. Lee, M. Lohstroh, H. Kim.	Invited Talk 2 (14:15 - 15:00) SRAM based Computation in Memory Circuits Design for Edge CNNs and Transformers. Author: X. Si.	Invited Talk 4 (14:15 - 15:00) Engineering safe autonomous systems: achievements and challenges. Author: E. Troubitsyna.
14:30 - 15:00	WiP: Pragmatic Action Charts. Author: S. Smyth.		
15:00 - 15:30	Coffee Break		
15:30 - 17:30		LLM-PIM 3 Session Chair: Z. Zhu.	TACPS 3 Session Chair: X. Zheng.
15:30 - 16:15	Closing Remarks Speakers: Claire Pagetti, Qi Zhu.	Invited Talk 3 Exploring Flex-Enabled Reconfigurable Processor-in-Memory Architectures for Data intensive Applications. Author: S. Bavikadi.	Invited Talk 5 Current Trends in Neuro-Symbolic Paradigm. Author: A. Solar-Lezama.

16:15 - 17:00		Invited Talk 4 Drainage: A Multi-task Coroutine Management Mechanism for Computational Storage. Author: X. Chen.	Panel Discussion On the impact of foundation models and the neuro-symbolic paradigm on trusted autonomy. Panelists: I. Ruchkin, M. Pajic, A. Solar-Lezama.	
17:00 - 17:15		Closing Remarks		